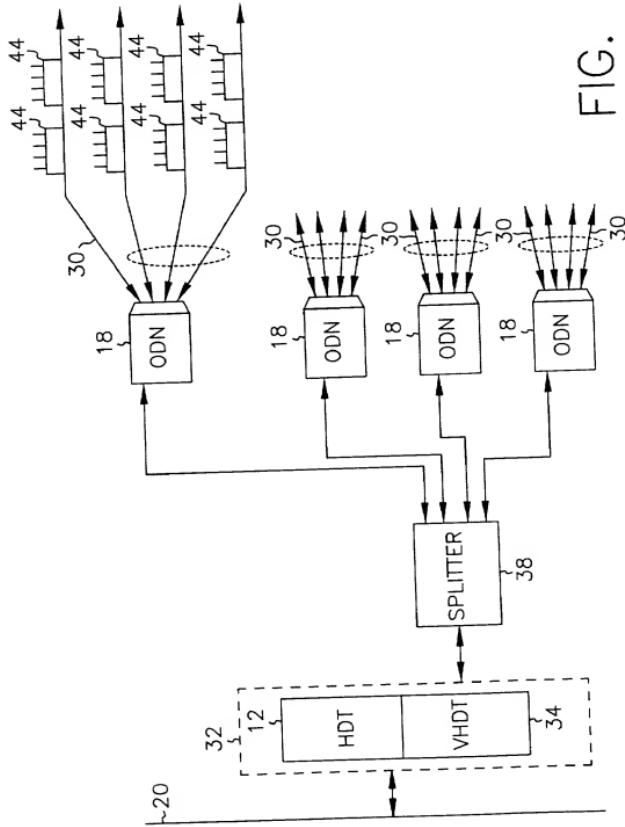


FIG. 1

FIG. 2



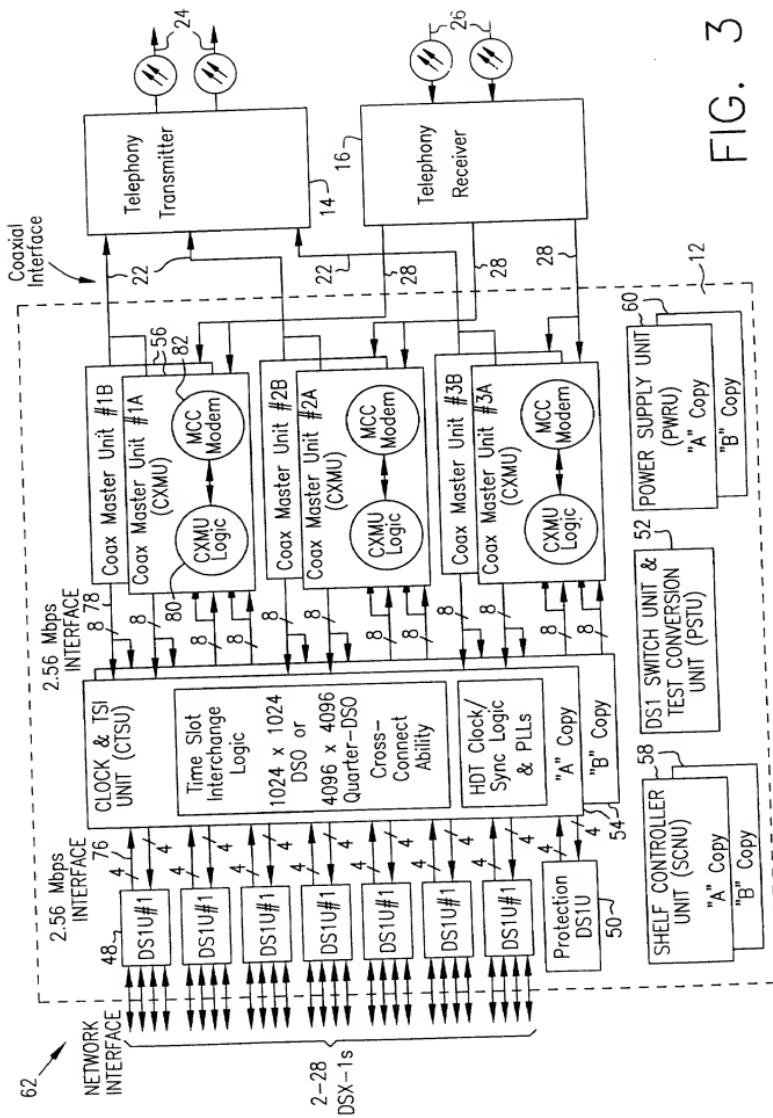


FIG. 3

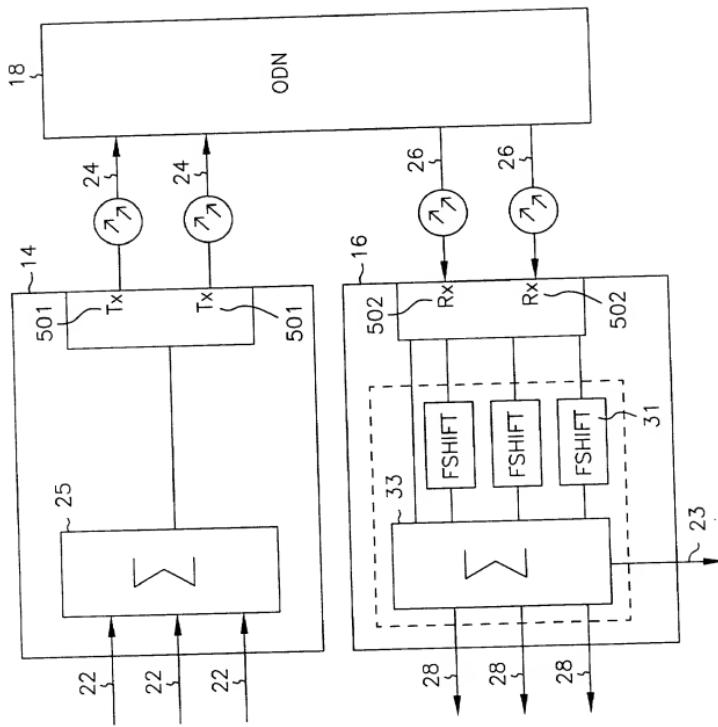


FIG. 4

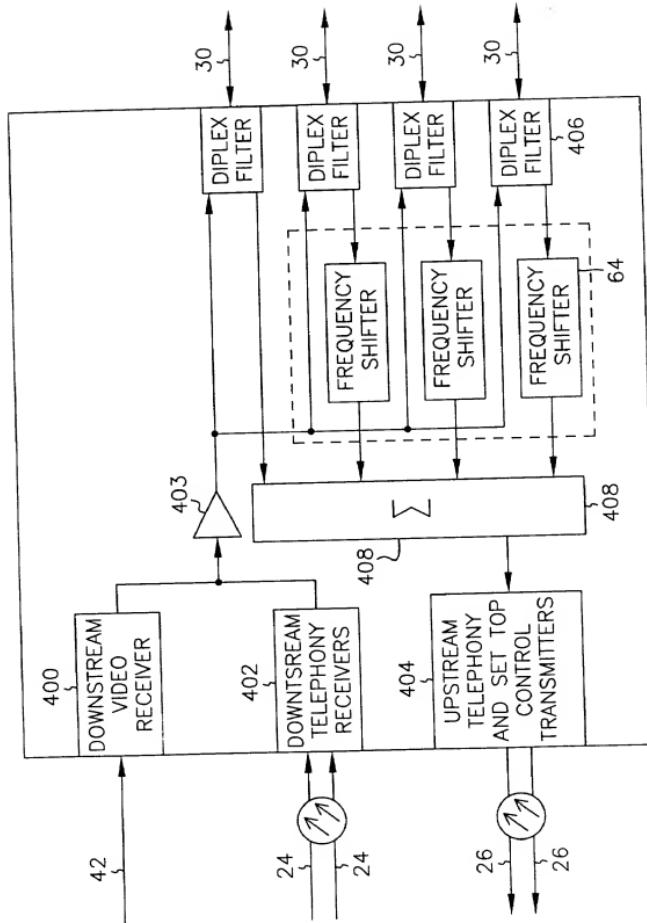


FIG. 5

FIG. 6

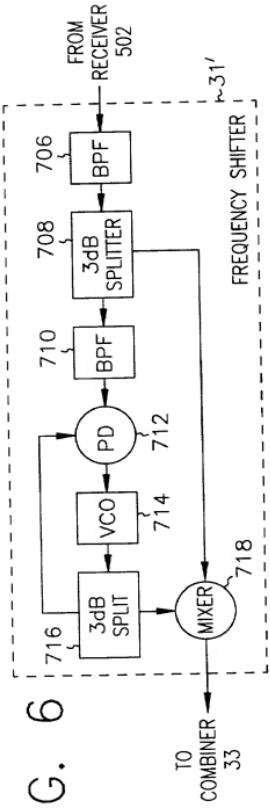


FIG. 7

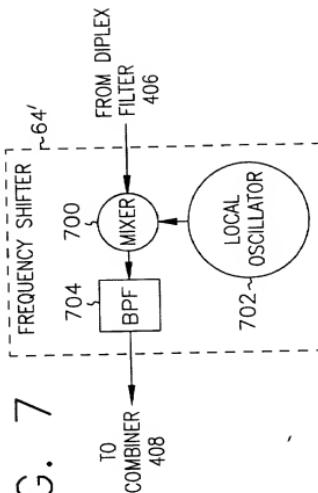
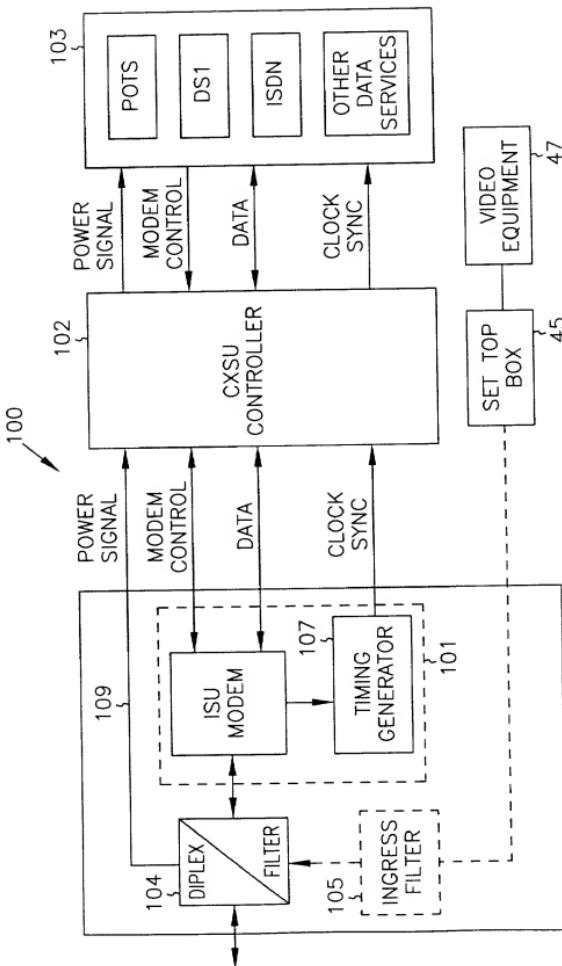


FIG. 8



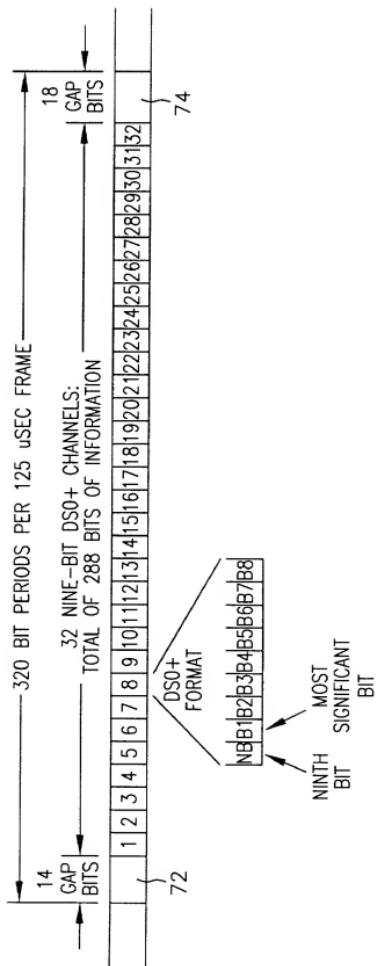
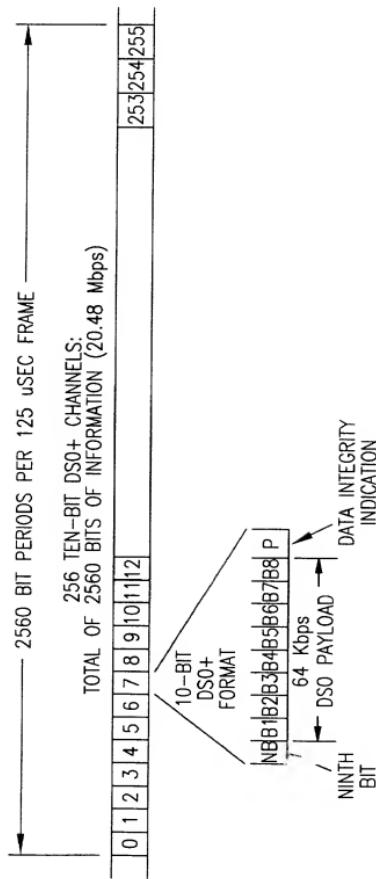


FIG. 9

FIG. 10



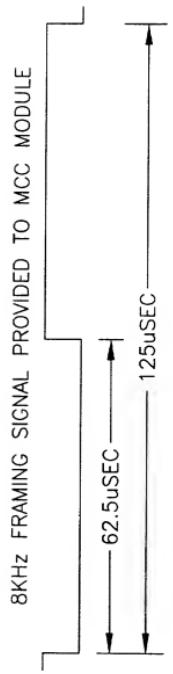
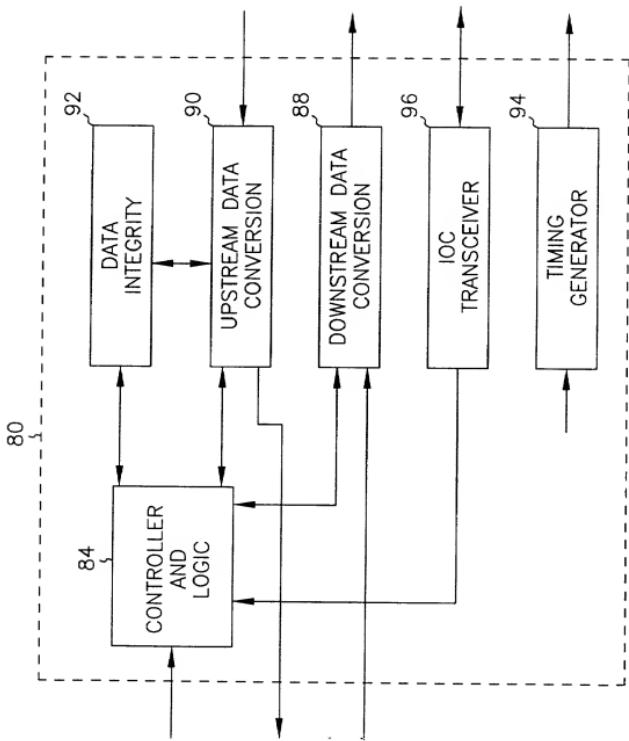


FIG. 11

FIG. 12



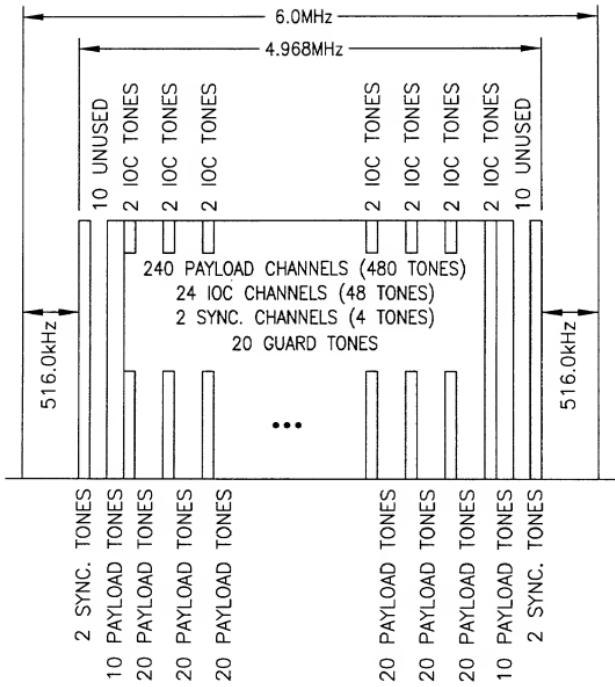


FIG. 13

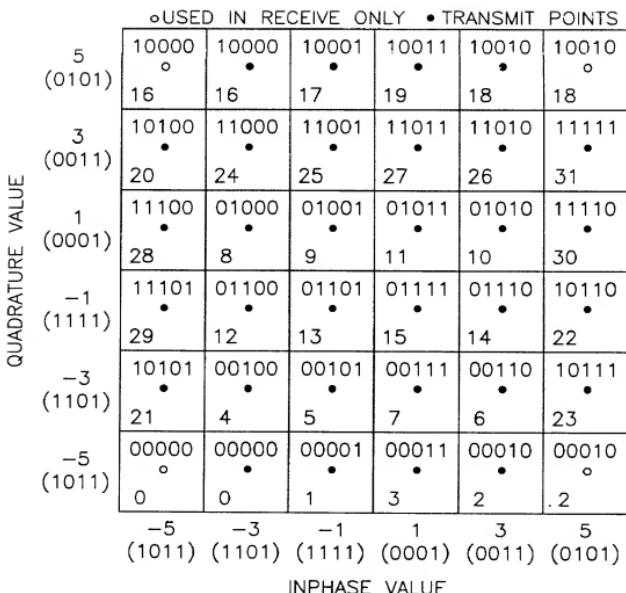


FIG. 14

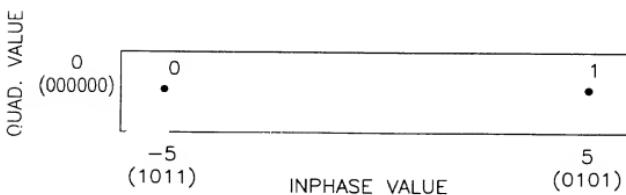
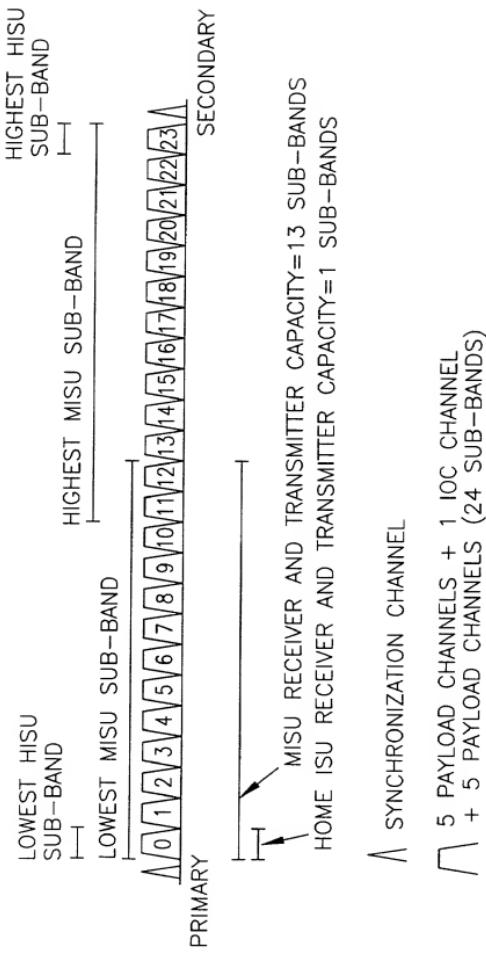


FIG. 15

FIG. 16



QUADRATURE ("Q") VALUE ↑

5-BIT BINARY VALUE							DECIMAL VALUE
10100 ° 20	10100 • 21	10101 • 21	10001 • 17	10000 • 16	10000 ° 16		
10110 • 22	00100 • 4	00101 • 5	00001 • 1	00000 • 0	10010 • 18		
10111 • 23	00110 • 6	00111 • 7	00011 • 3	00010 • 2	10011 • 19		
11111 • 31	01110 • 14	01111 • 15	01011 • 11	01010 • 10	11011 • 27		
11110 • 30	01100 • 12	01101 • 13	01001 • 9	01000 • 8	11010 • 26		
11100 ° 28	11100 • 28	11101 • 29	11001 • 25	11000 • 24	11000 ° 24		

↓ I=001 I=010 I=011 I=100 I=101 I=110 IN-PHASE ("I") VALUE

FIG. 17

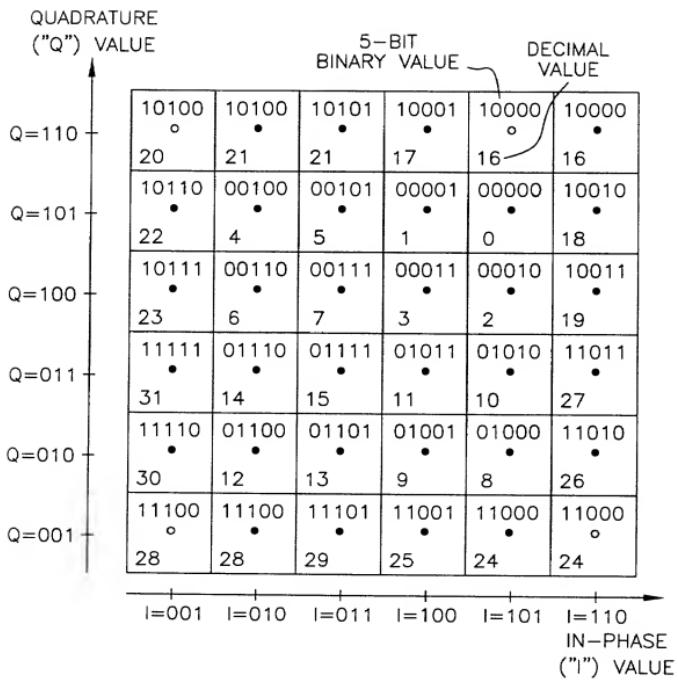


FIG. 18

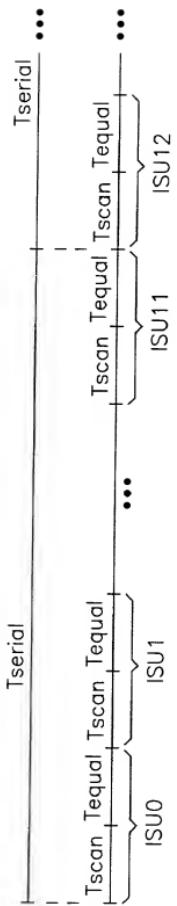


FIG. 19

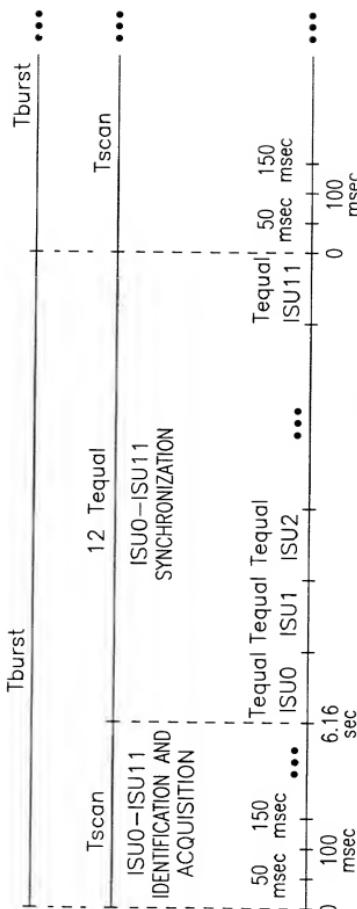


FIG. 20

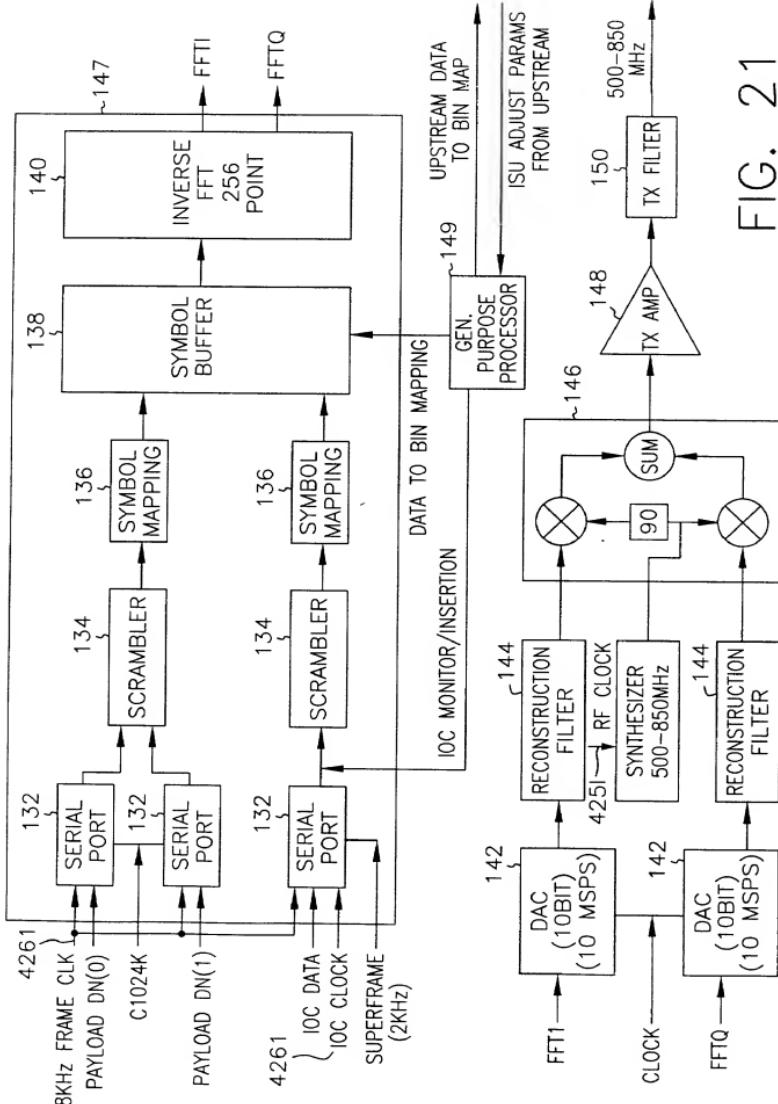


FIG. 21

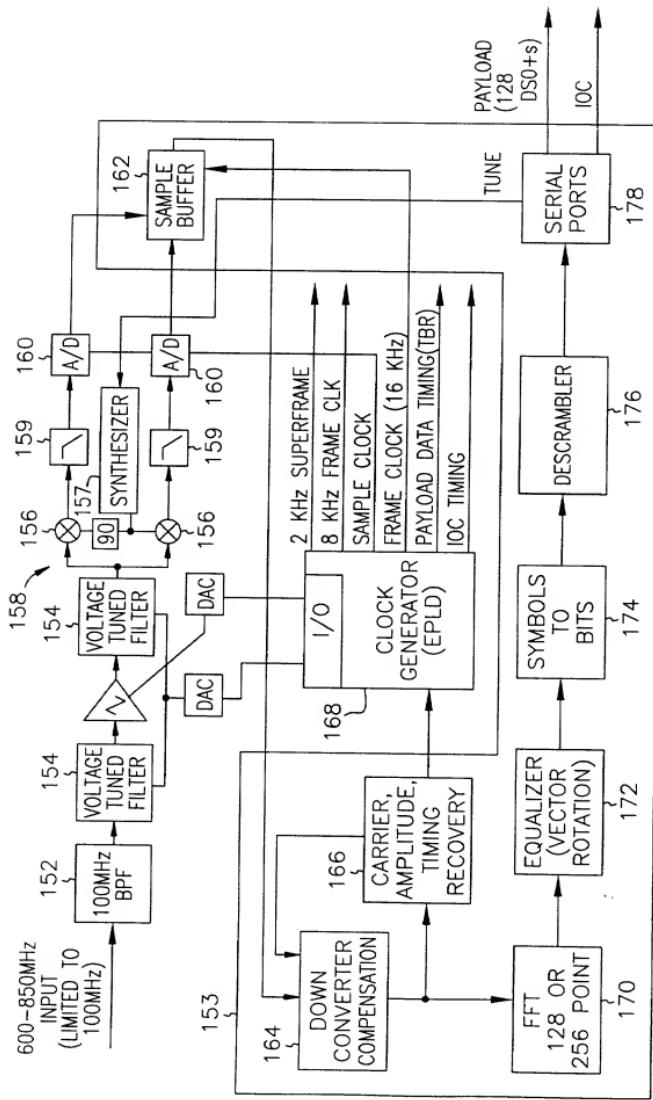
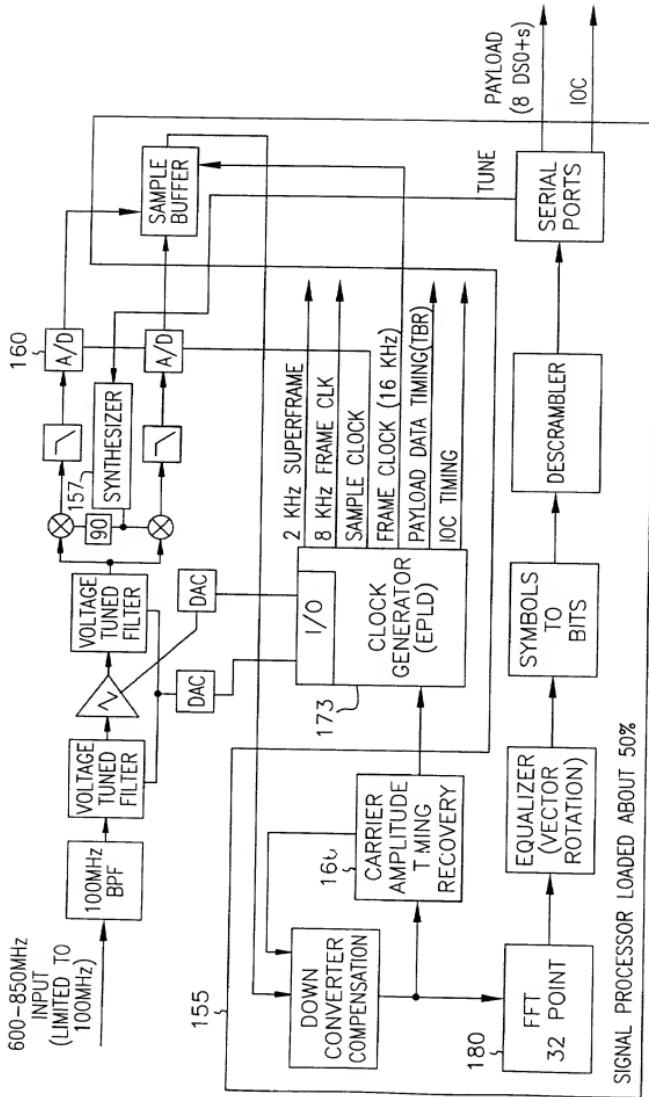


FIG. 22

FIG. 23



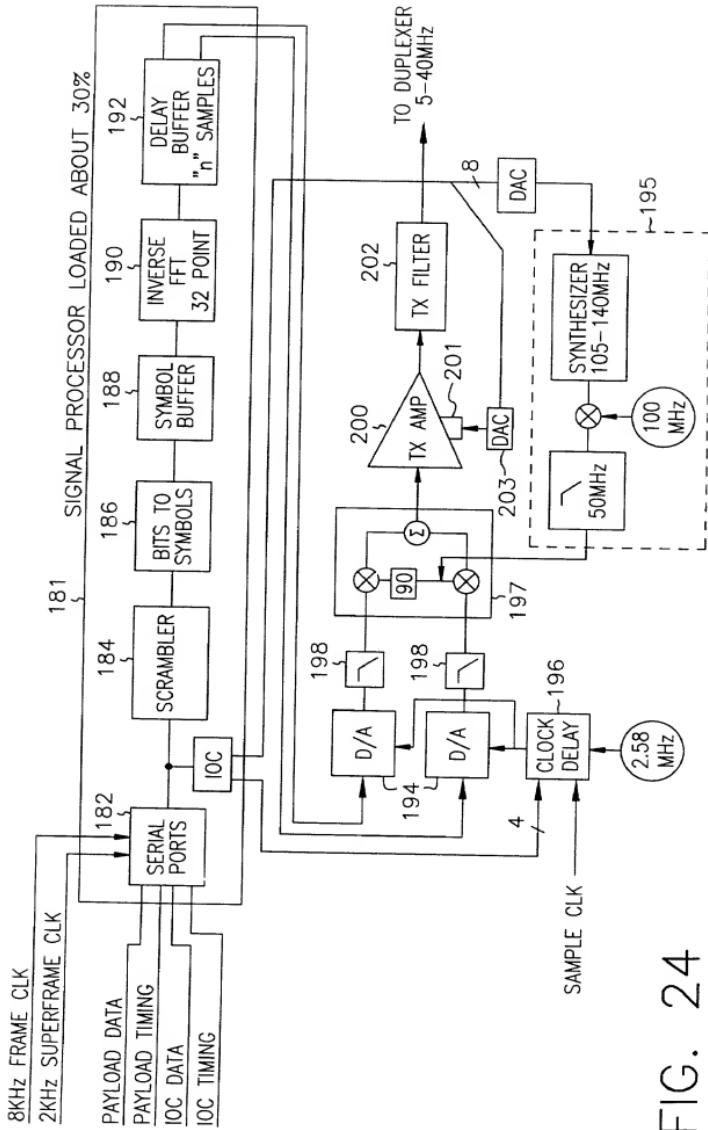


FIG. 24

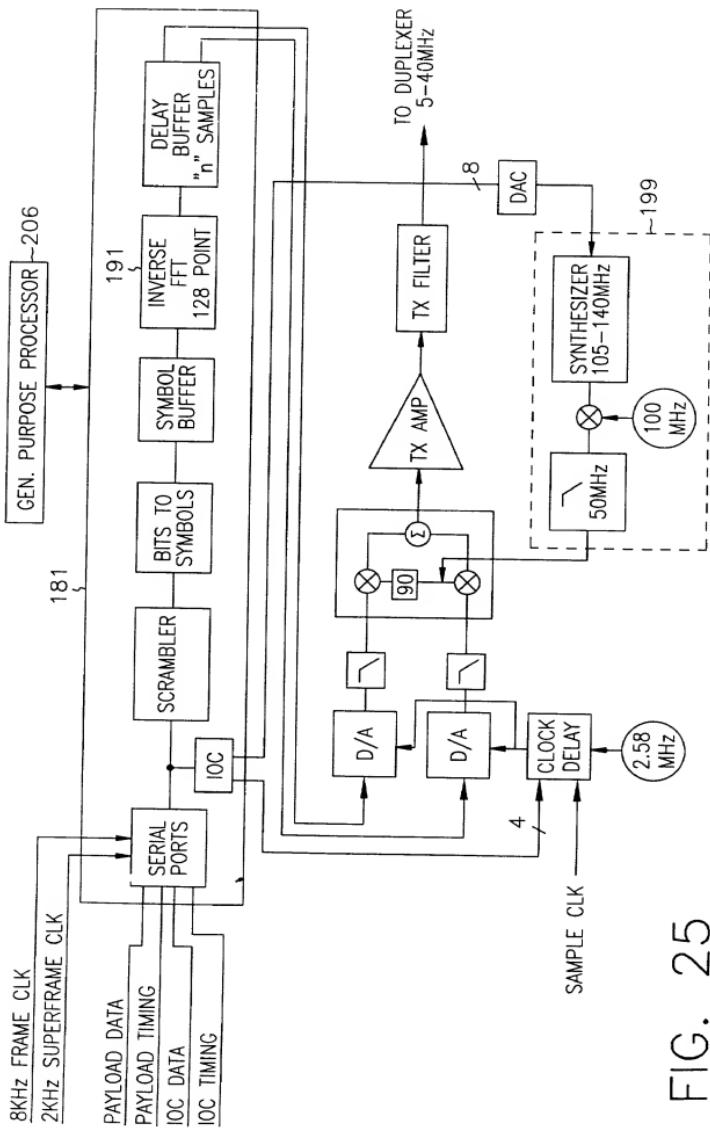
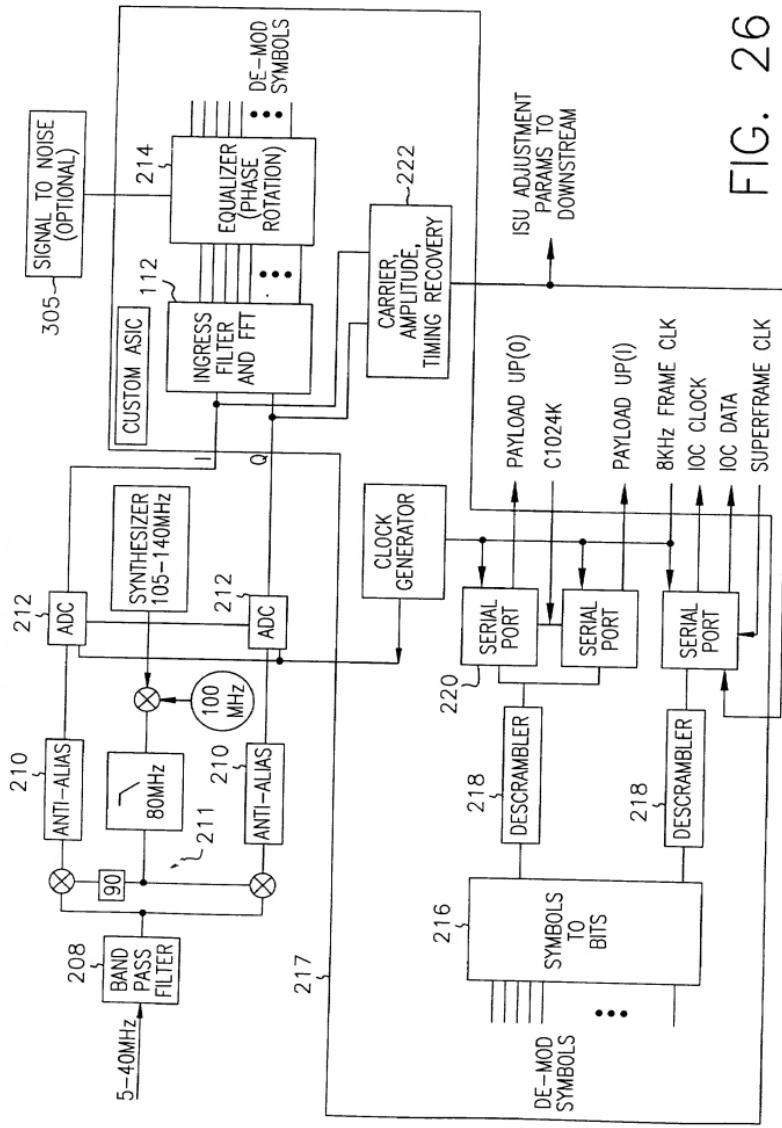


FIG. 25

FIG. 26



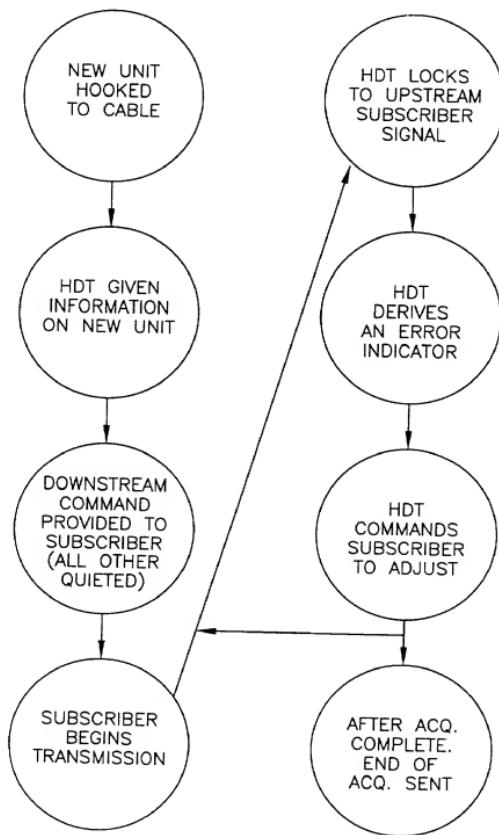


FIG. 27

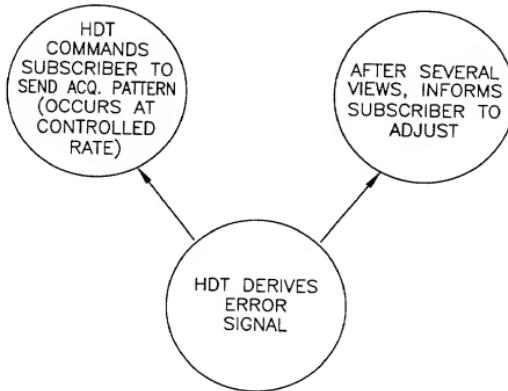


FIG. 28

Magnitude response of a single polyphase filter bank

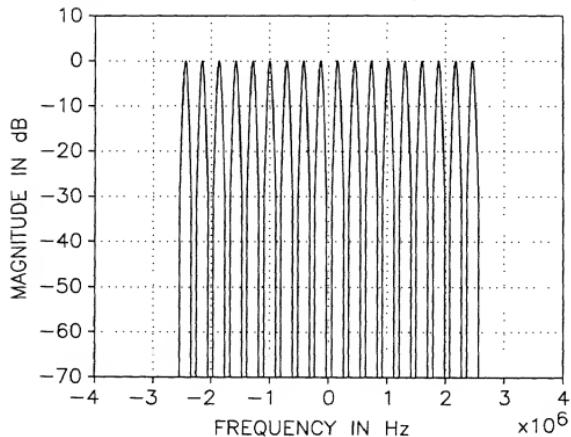


FIG. 29

Magnitude response of a single polyphase filter bank

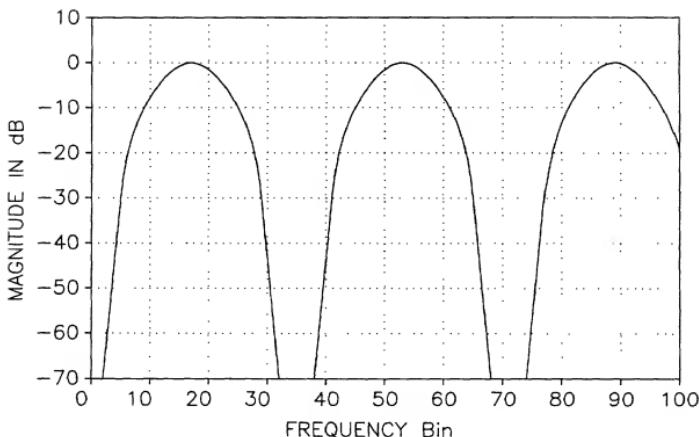


FIG. 30

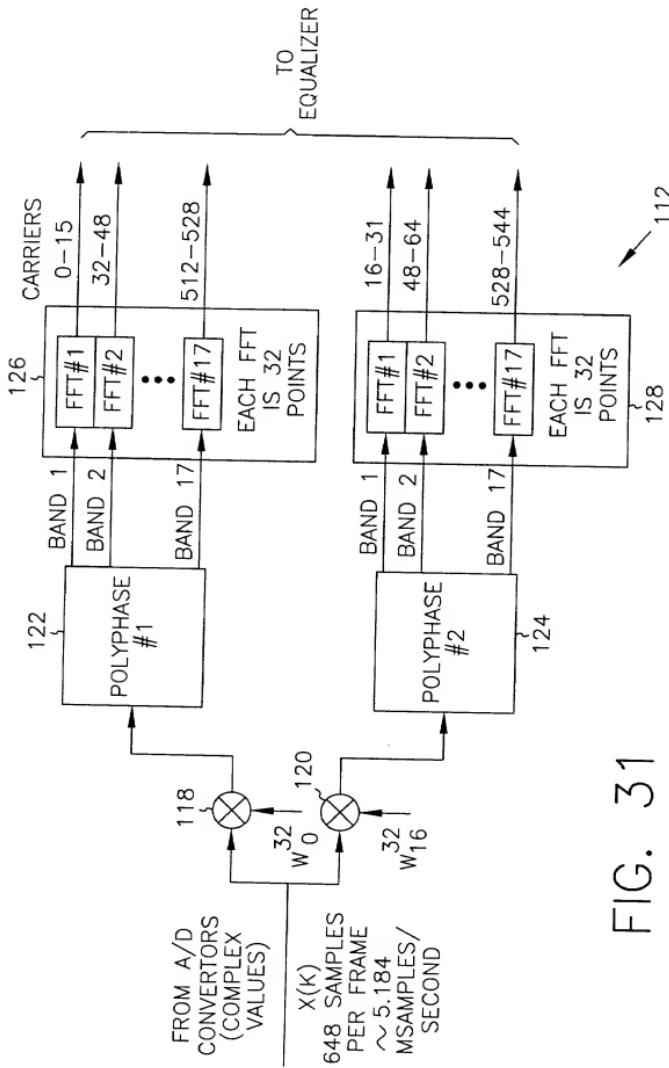


FIG. 31

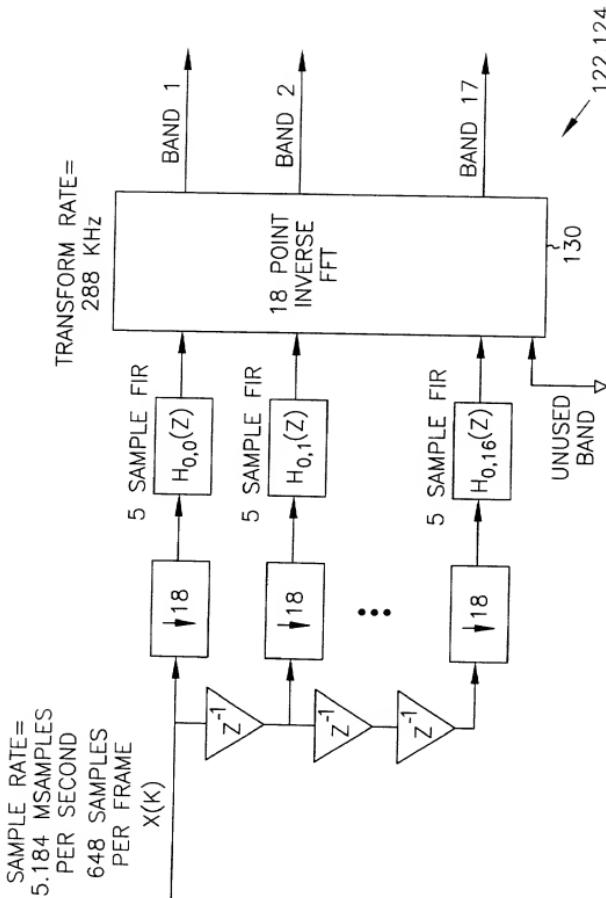


FIG. 32

FIG. 33

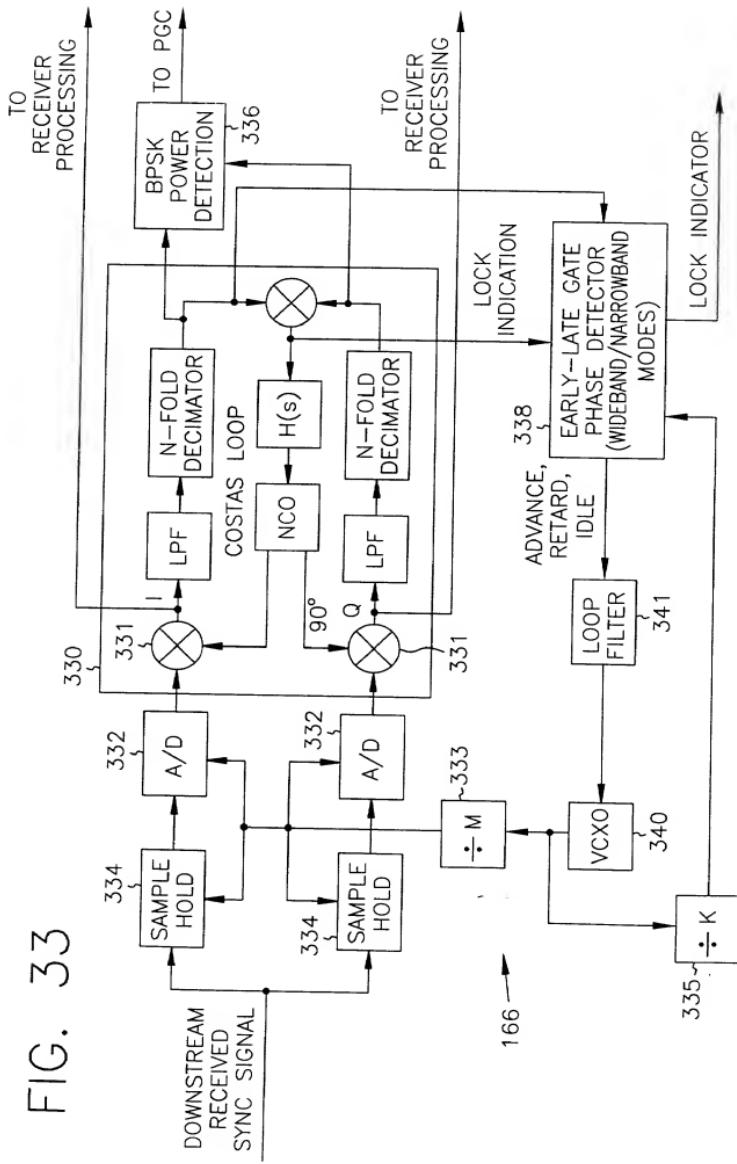
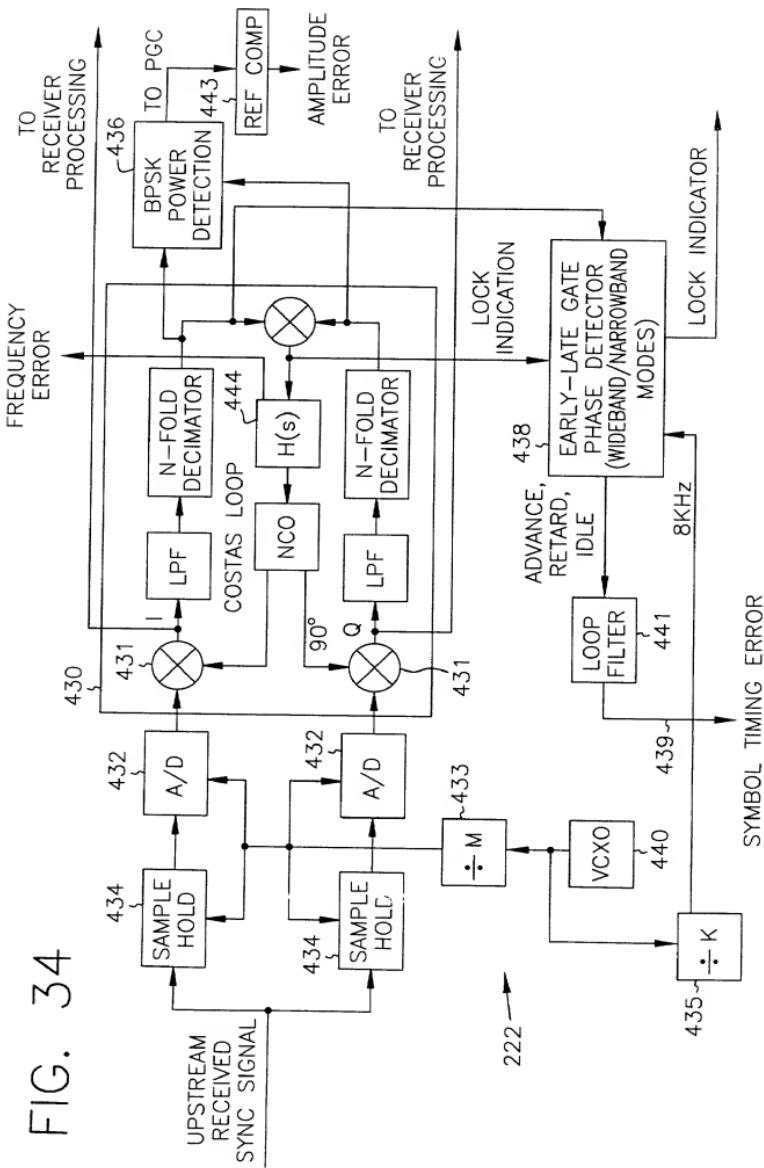


FIG. 34



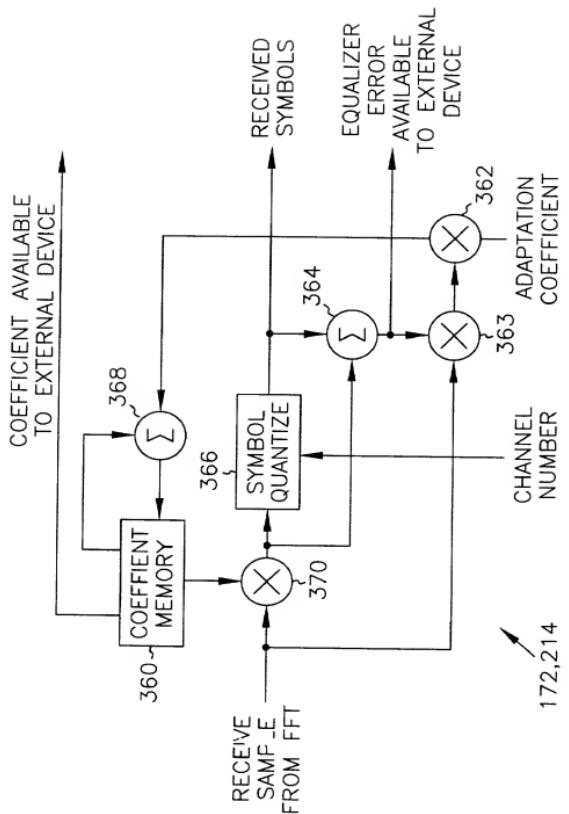


FIG. 35

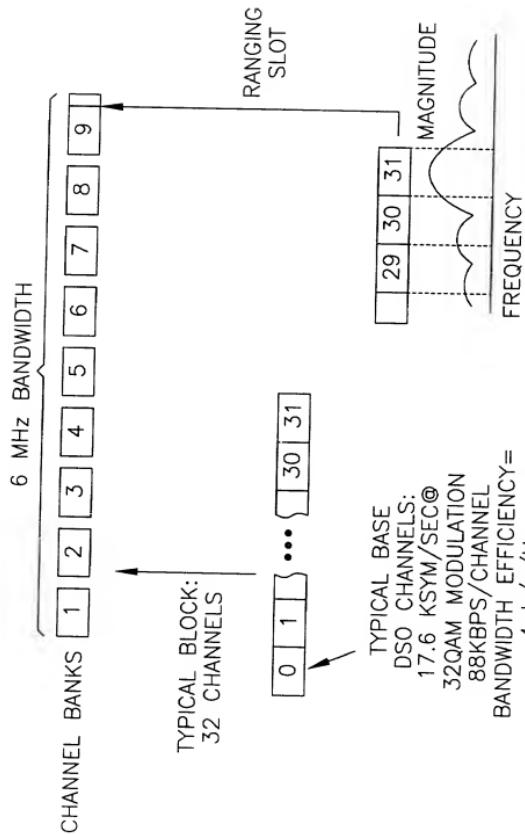


FIG. 36

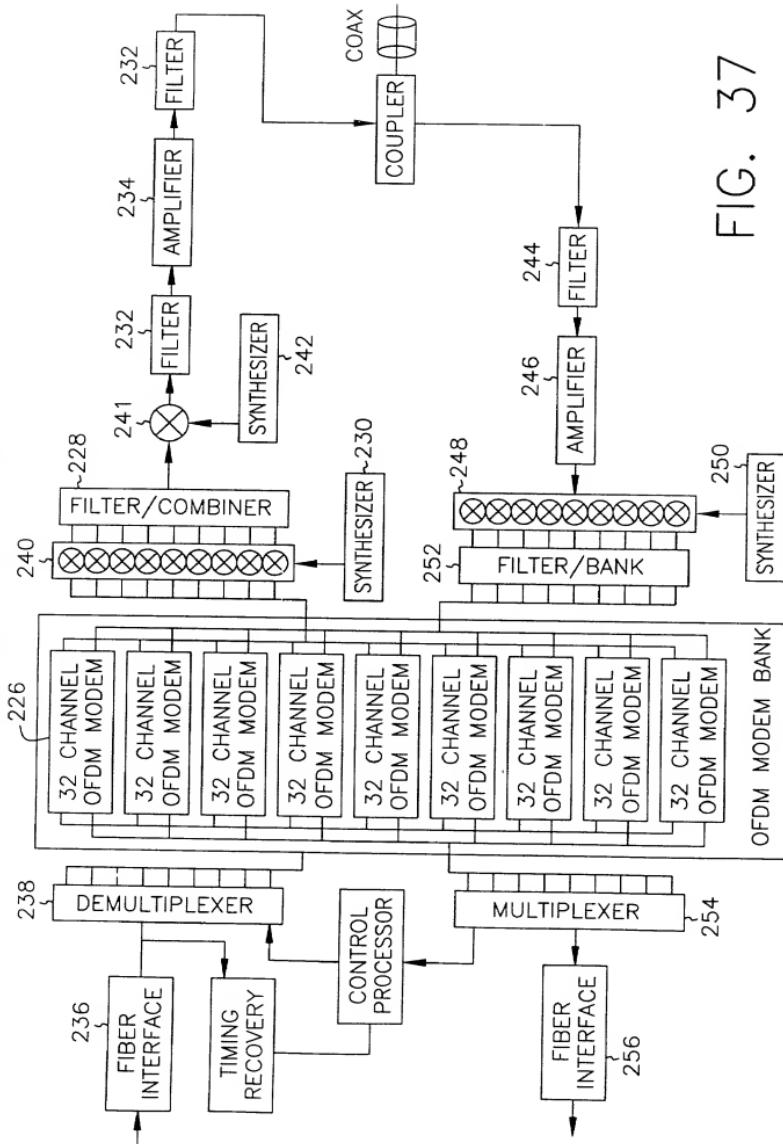


FIG. 37

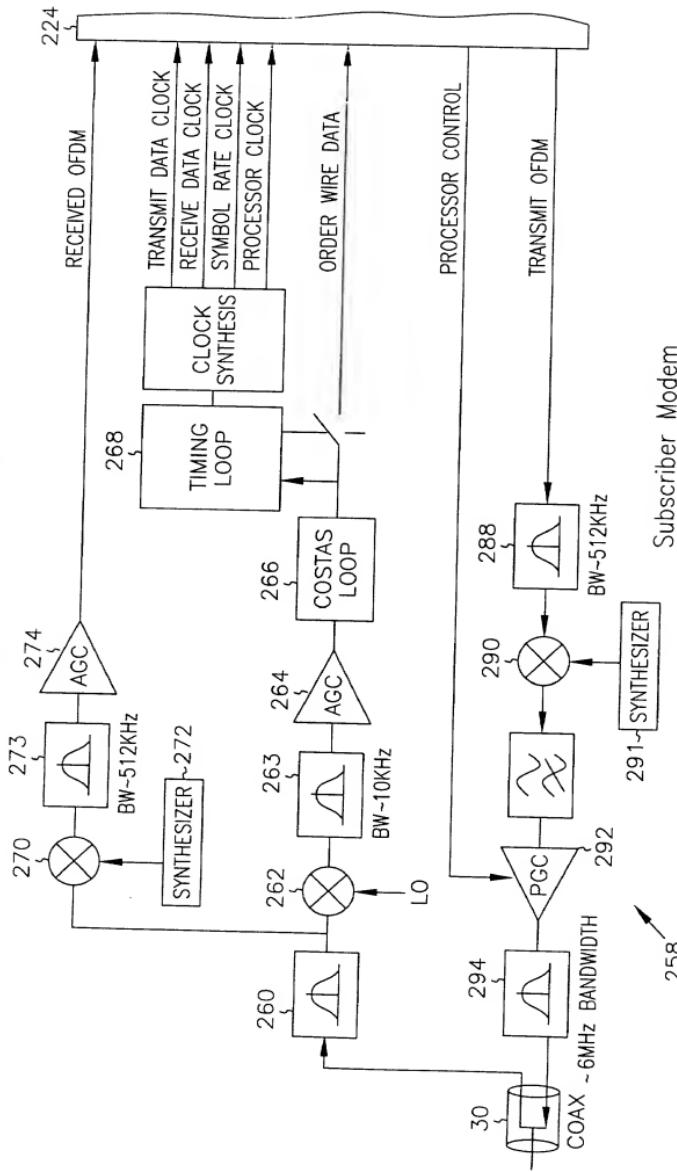
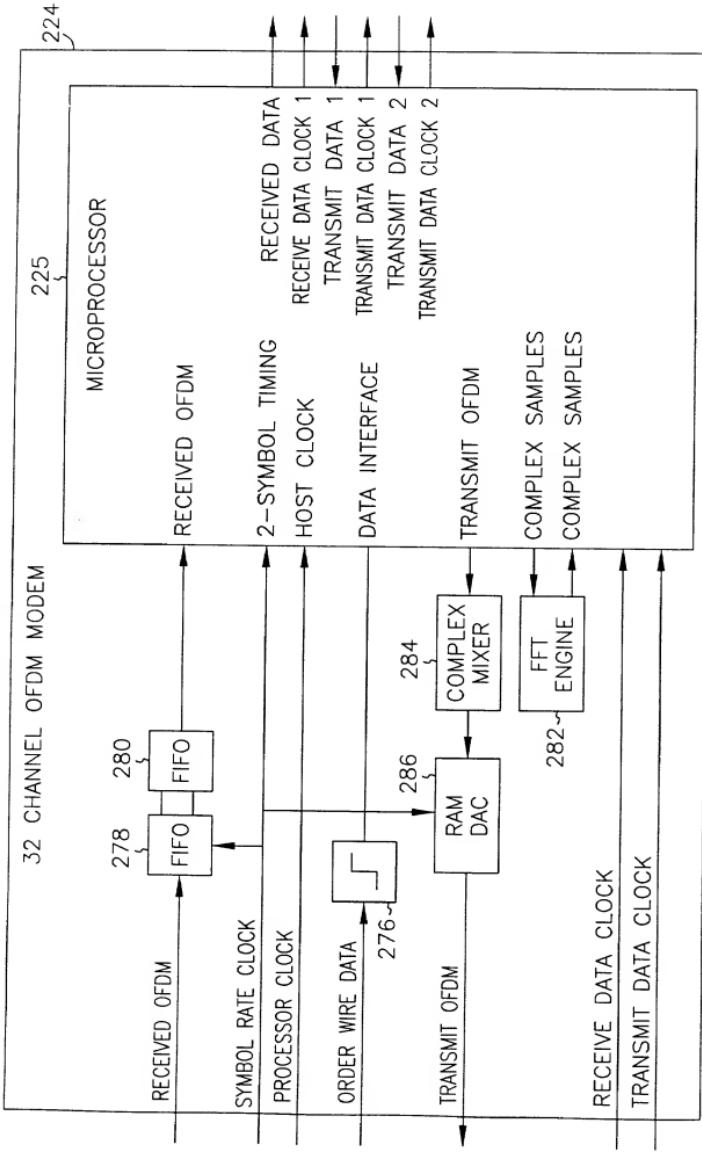


FIG. 38

FIG. 39



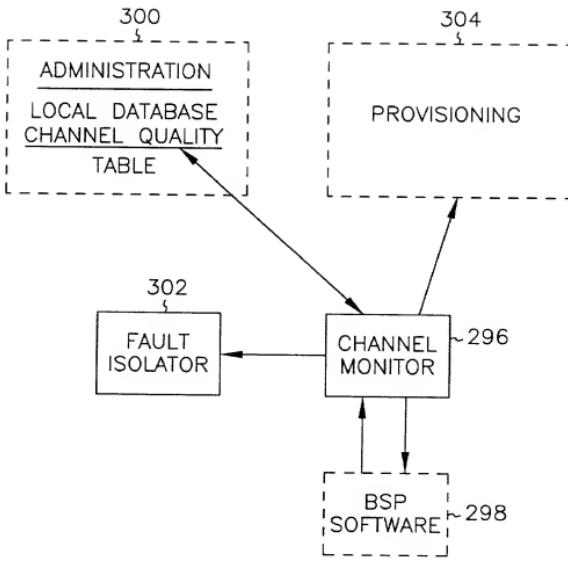


FIG. 40

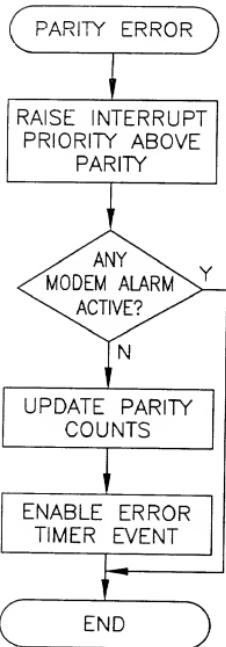


FIG. 41

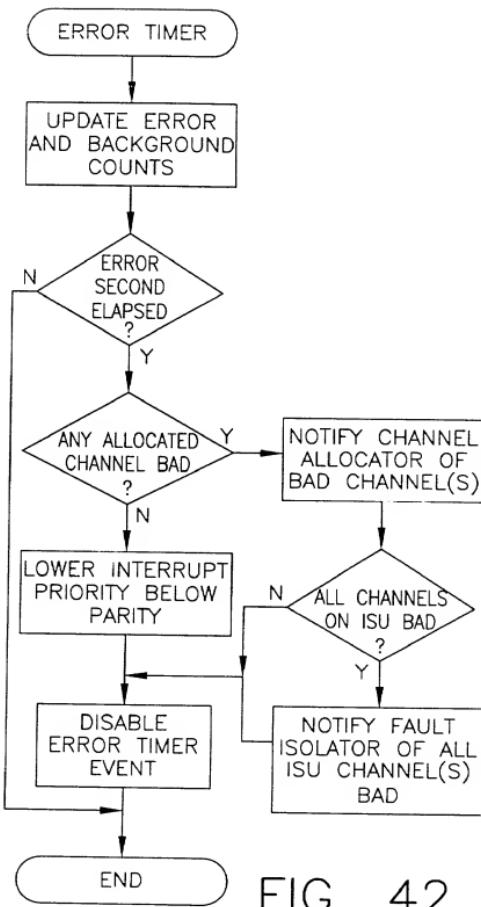


FIG. 42

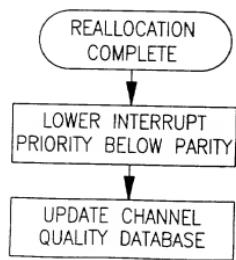


FIG. 43

FIG. 44

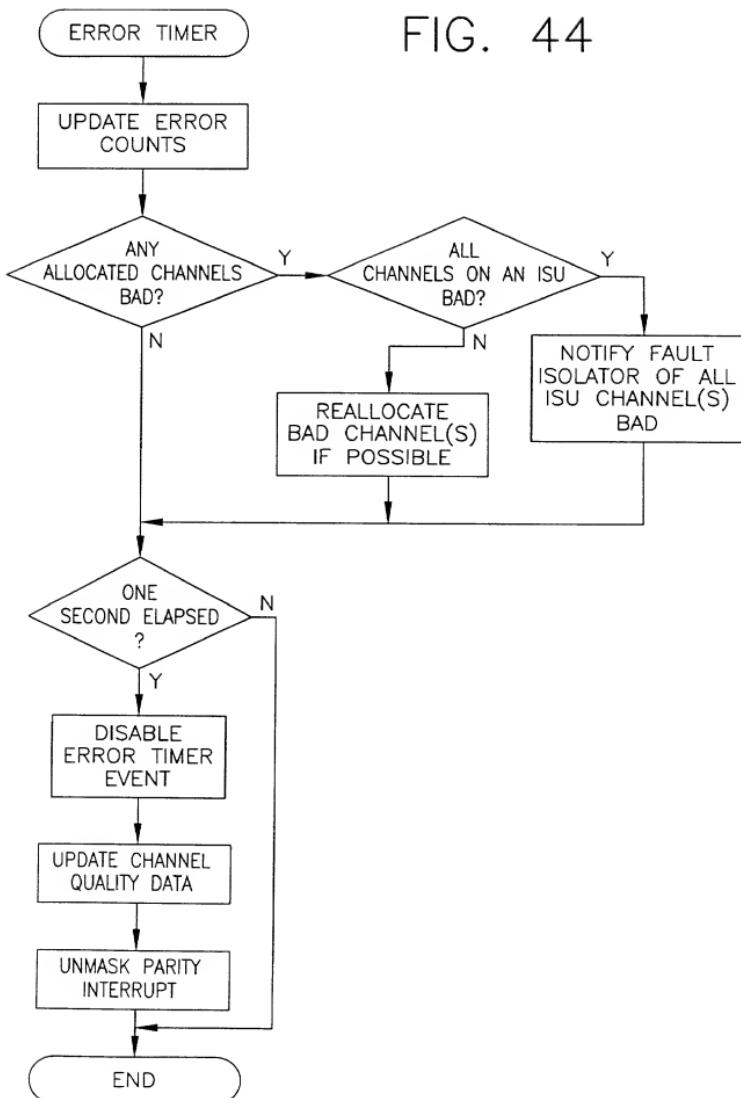


FIG. 45

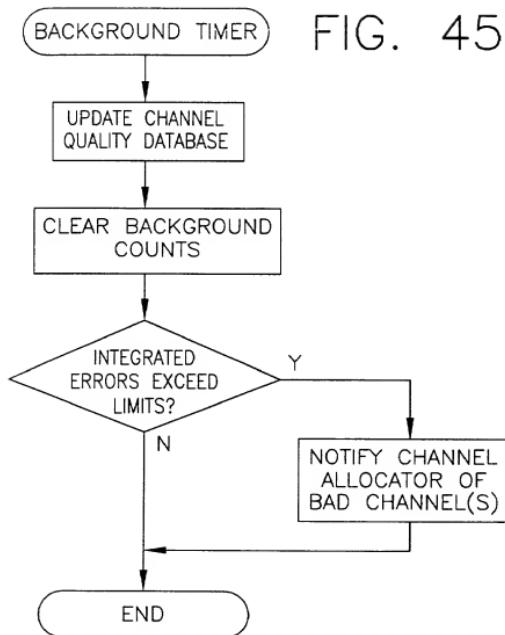
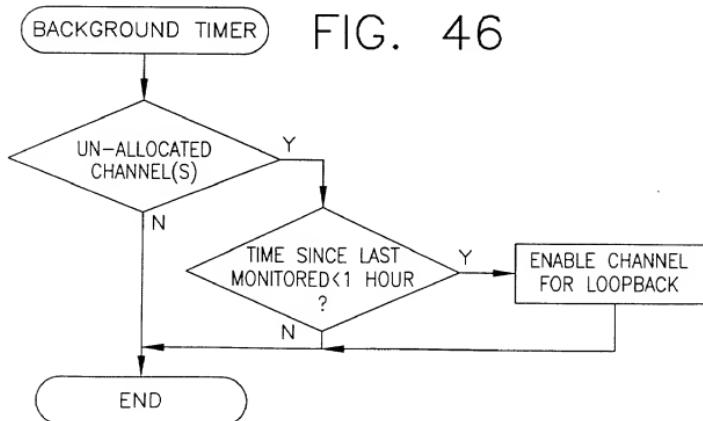


FIG. 46



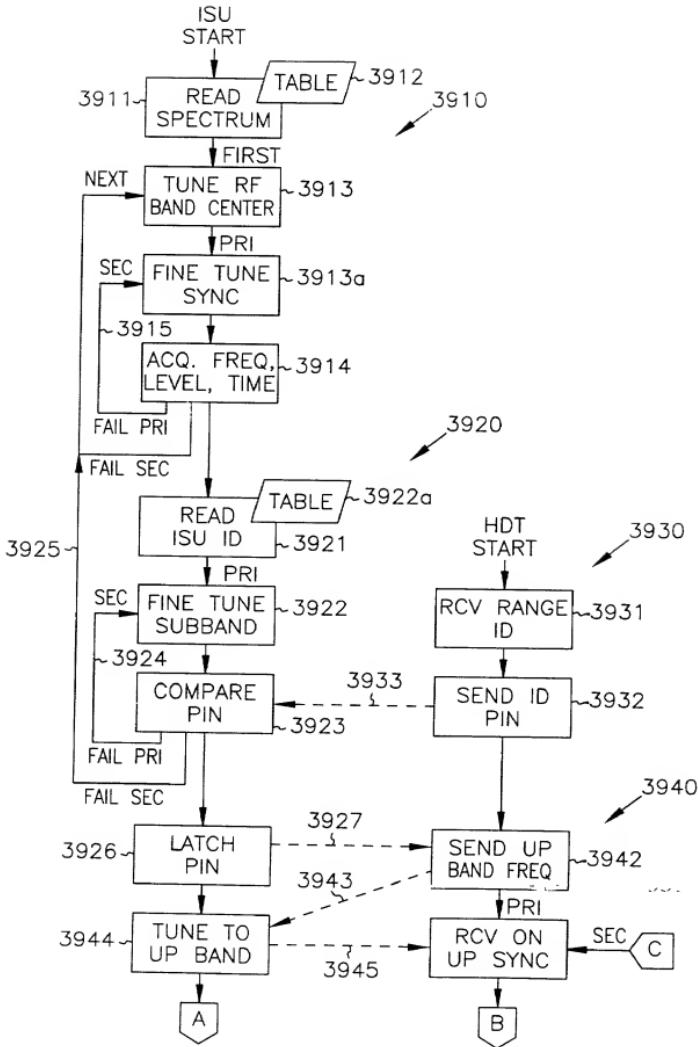


FIG. 47

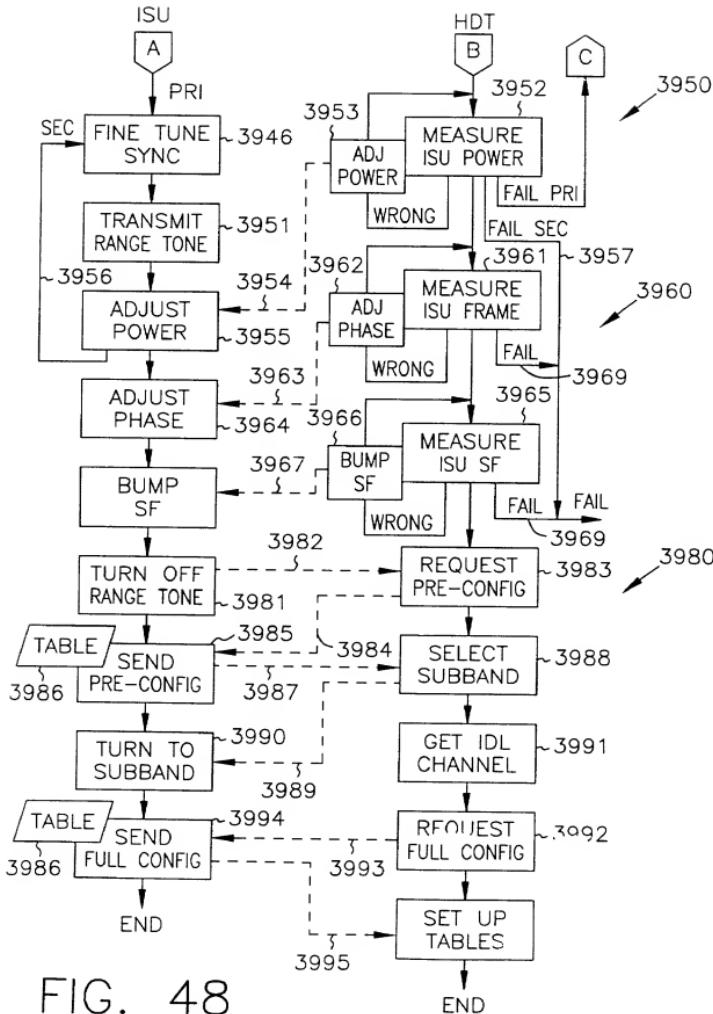


FIG. 48

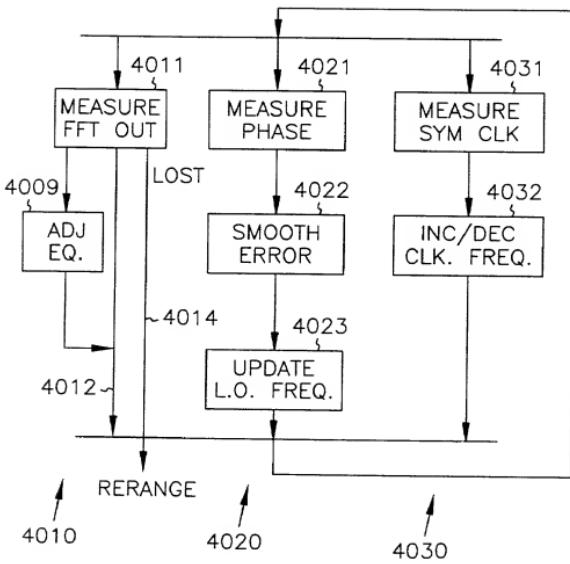


FIG. 49

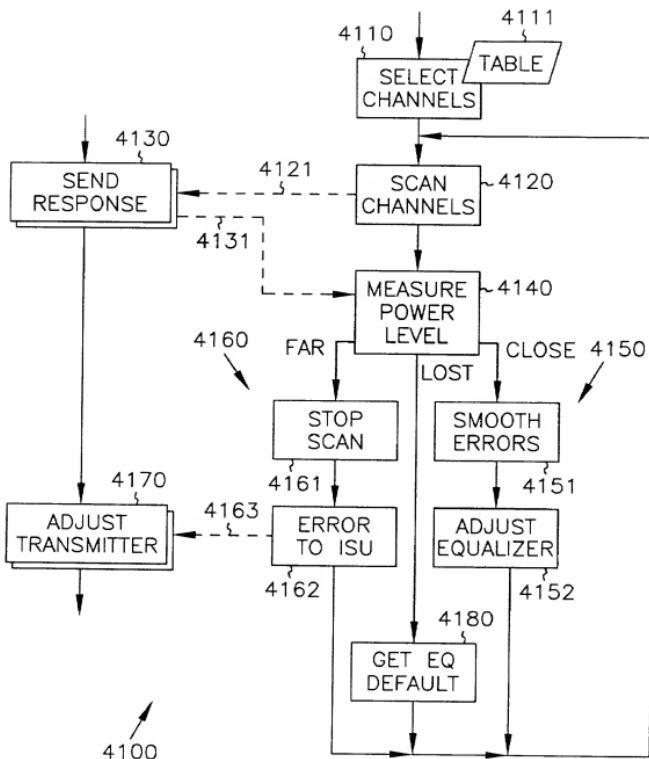


FIG. 50

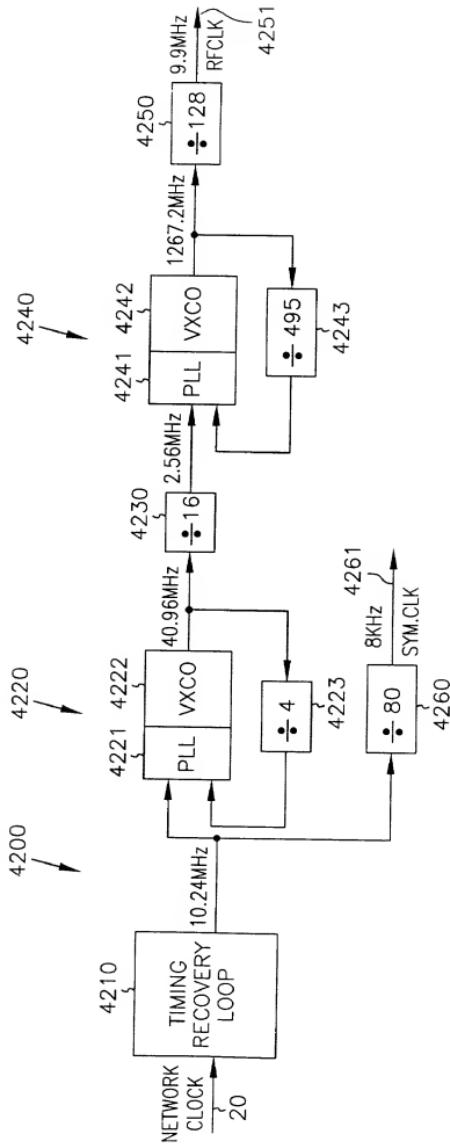


FIG. 51

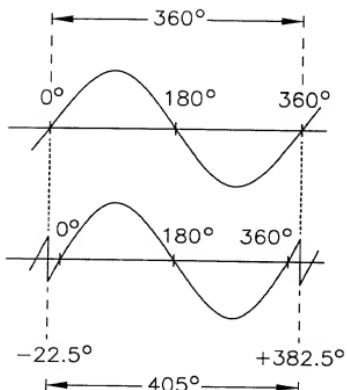


FIG. 52

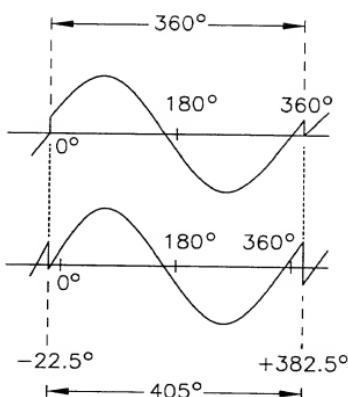


FIG. 53

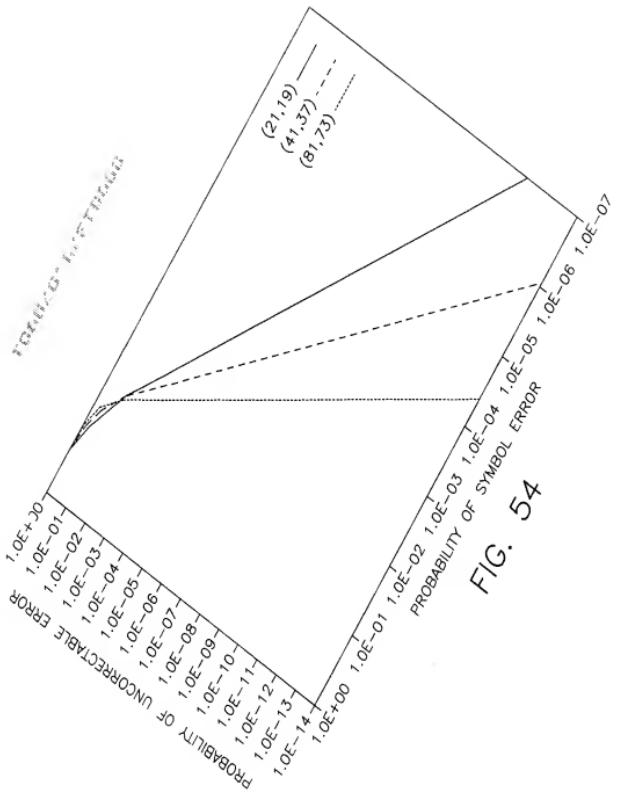


FIG. 54

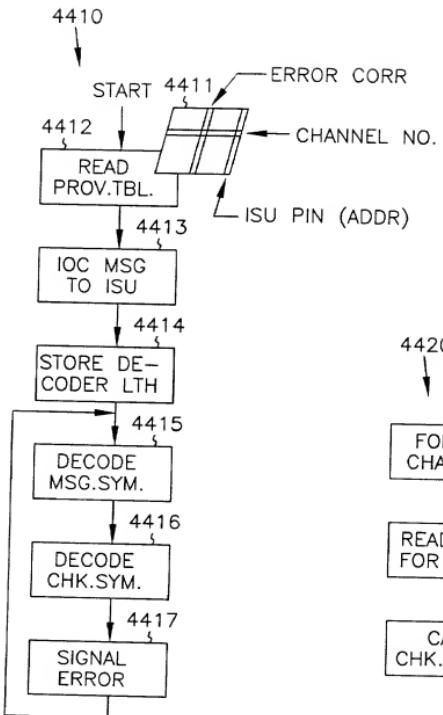


FIG. 55

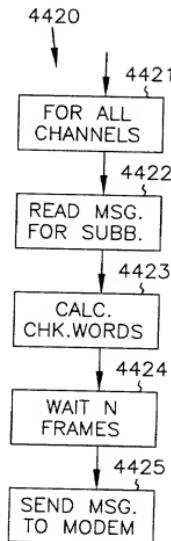


FIG. 56

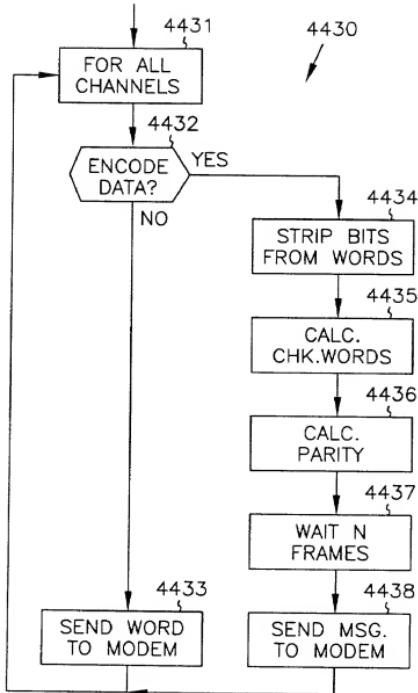


FIG. 57

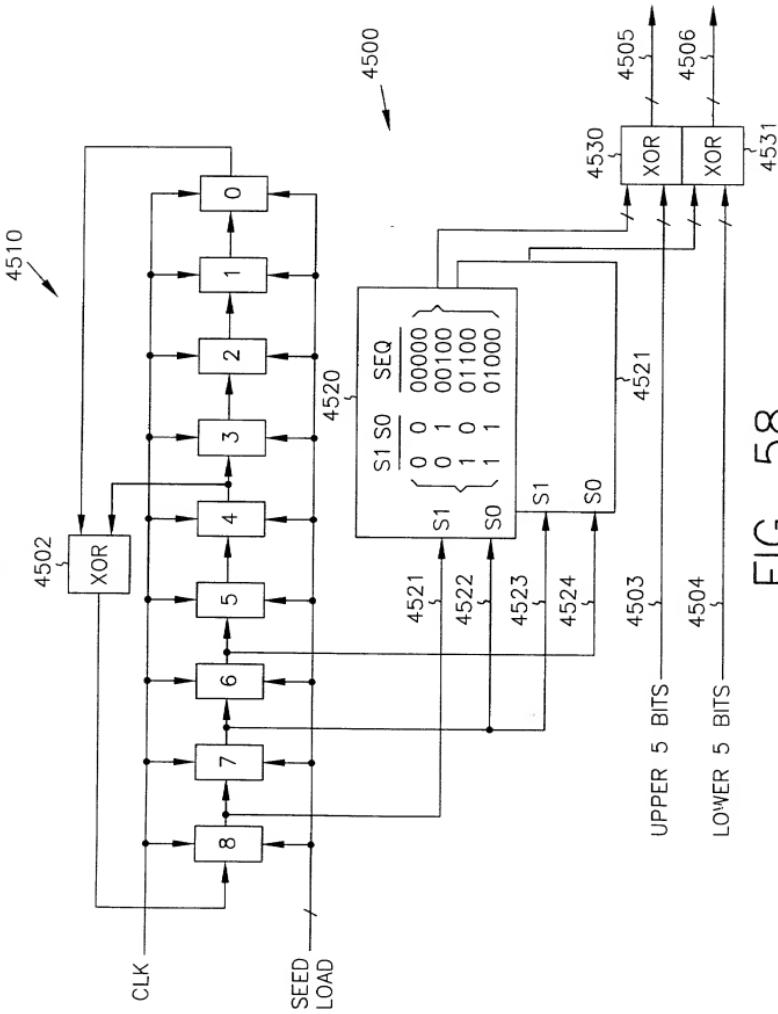


FIG. 58

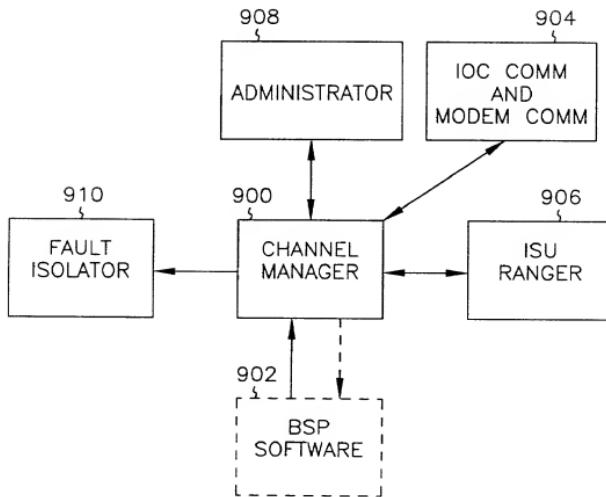


FIG. 59

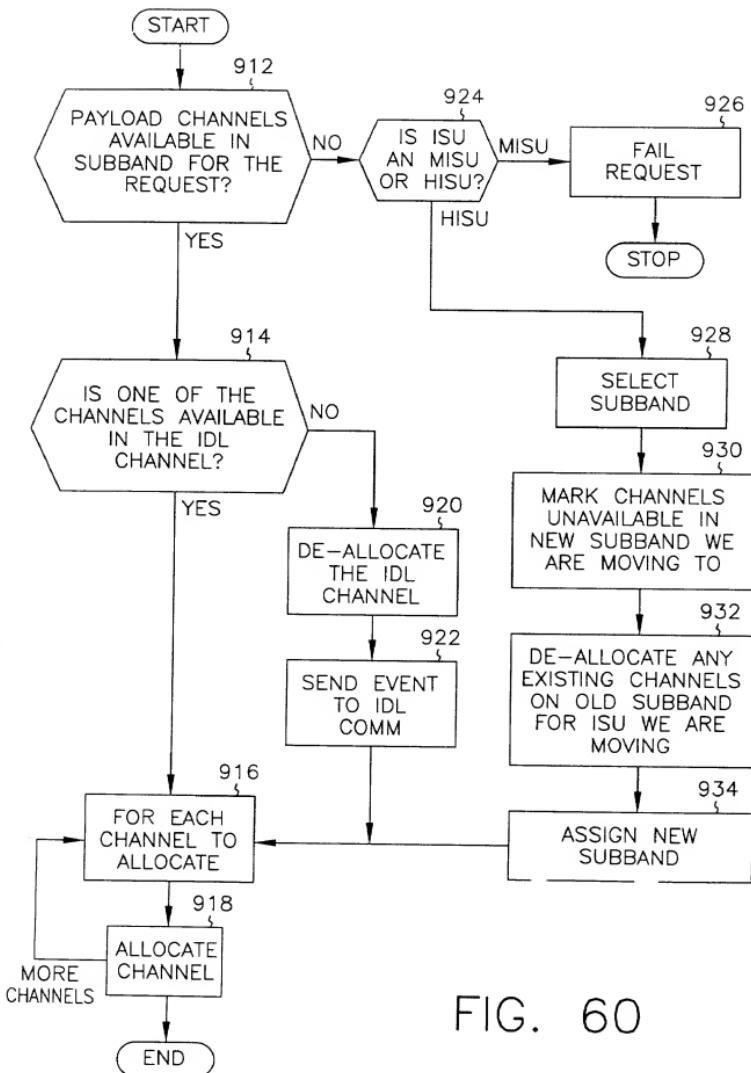


FIG. 60

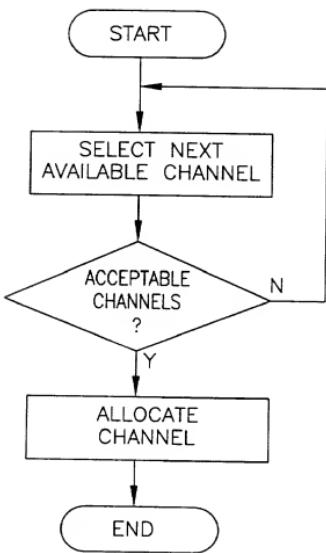


FIG. 61

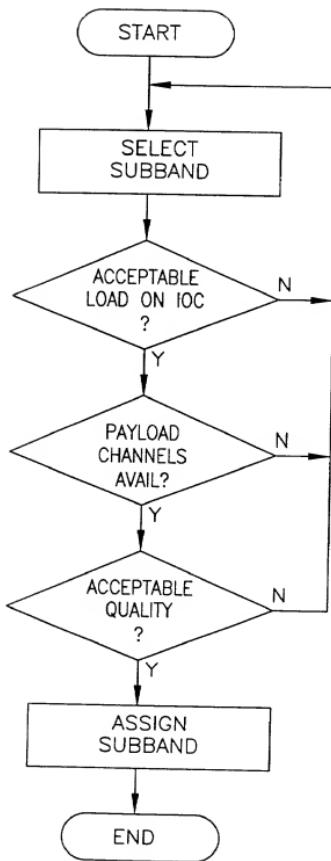


FIG. 62

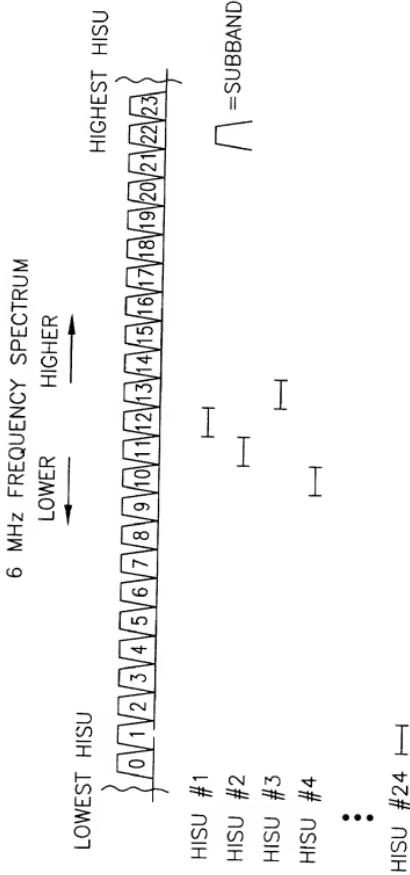


FIG. 63

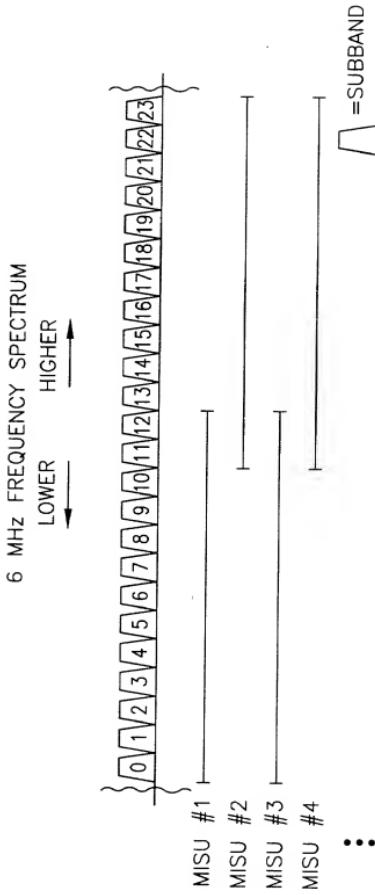


FIG. 64

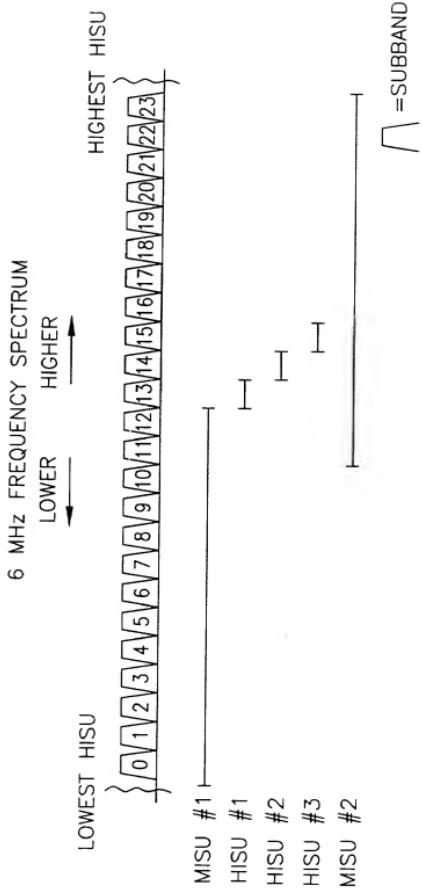


FIG. 65

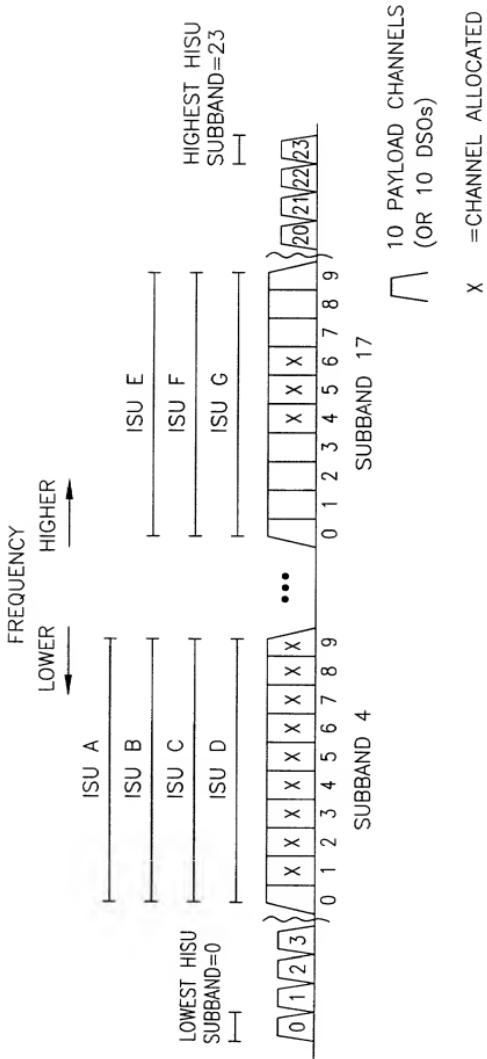


FIG. 66

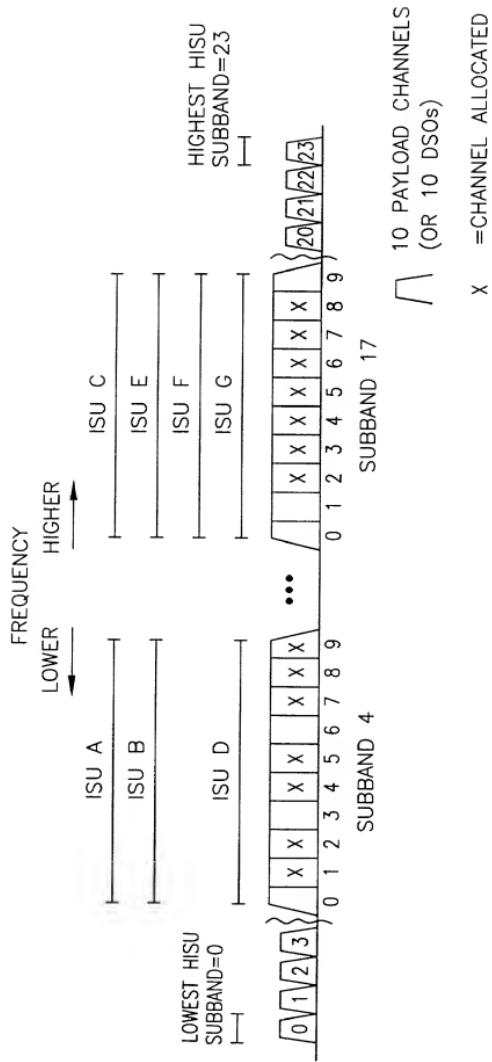


FIG. 67

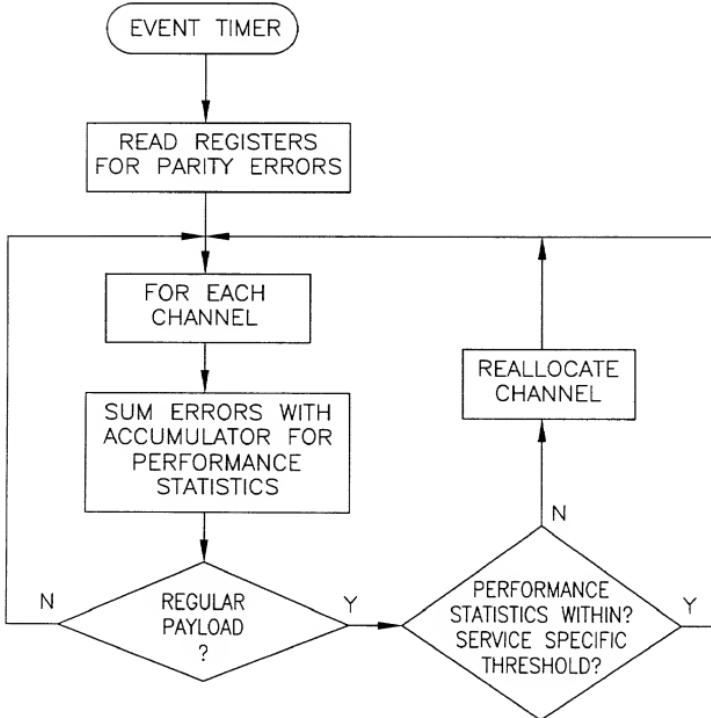


FIG. 68

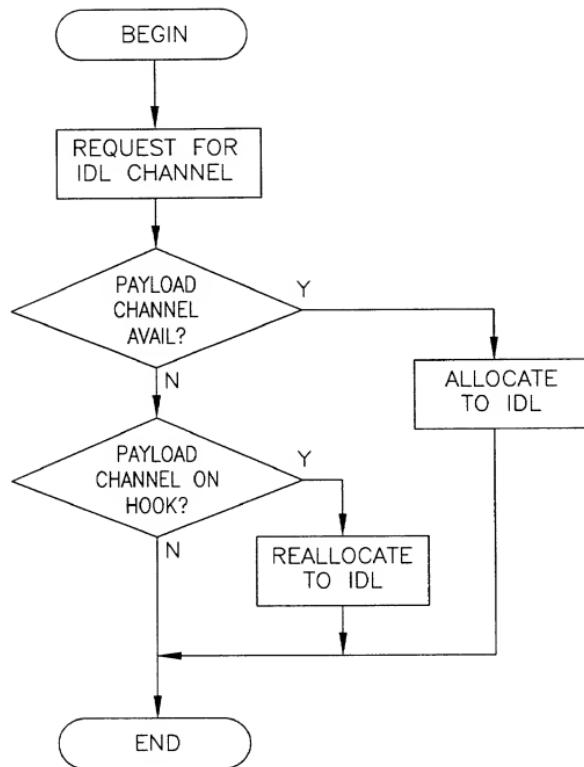


FIG. 69

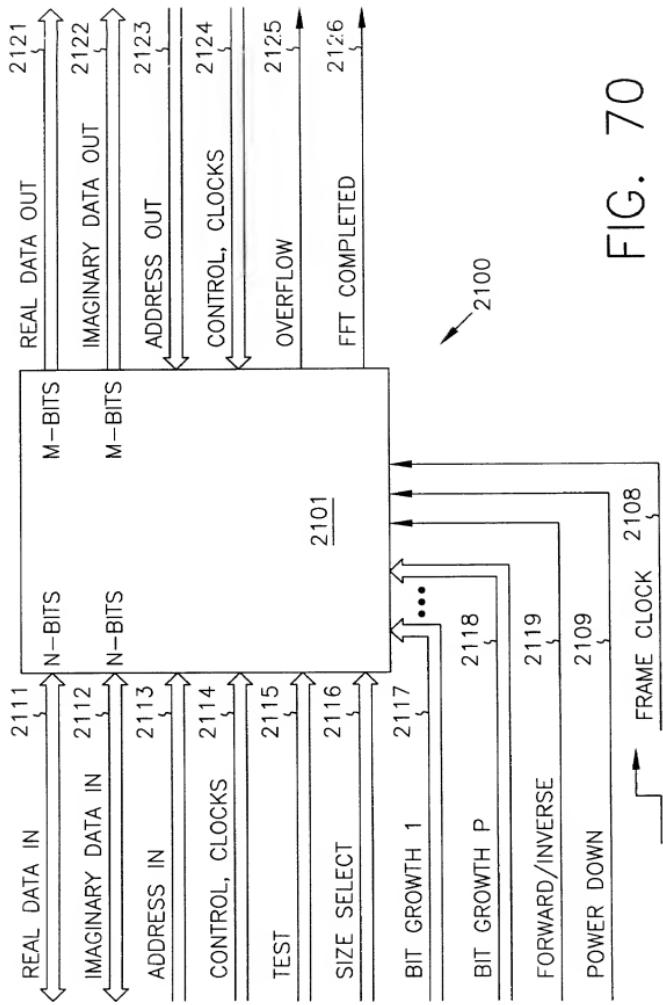
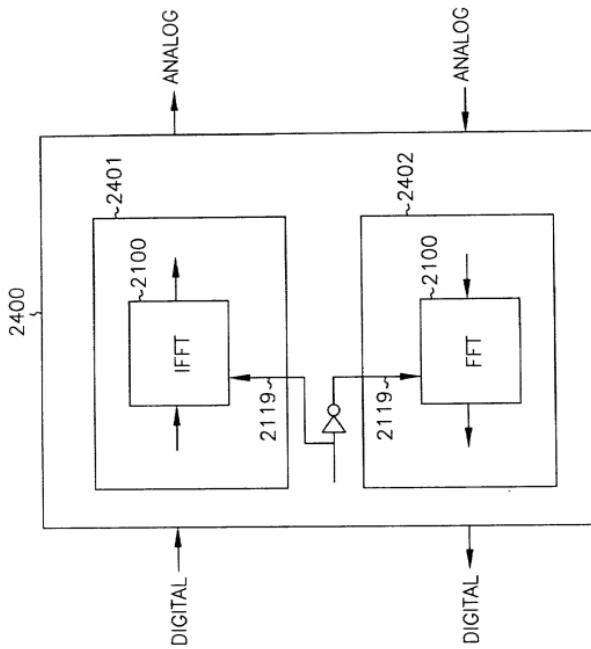


FIG. 70

FIG. 71



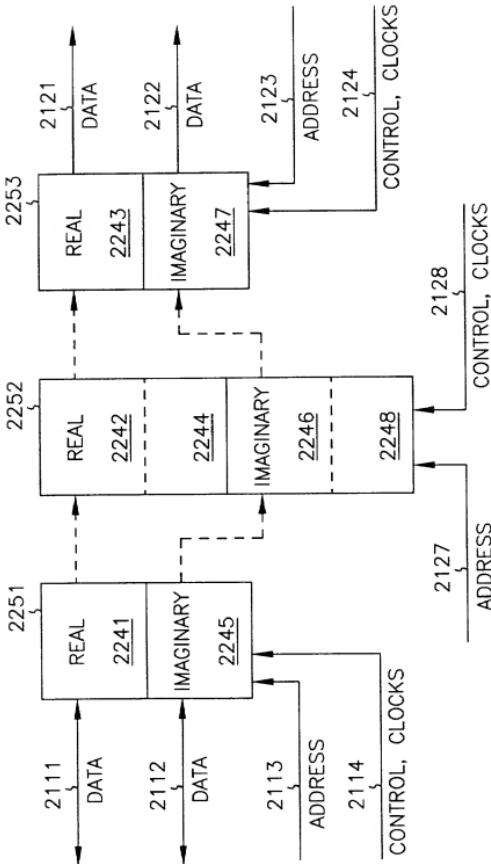


FIG. 72

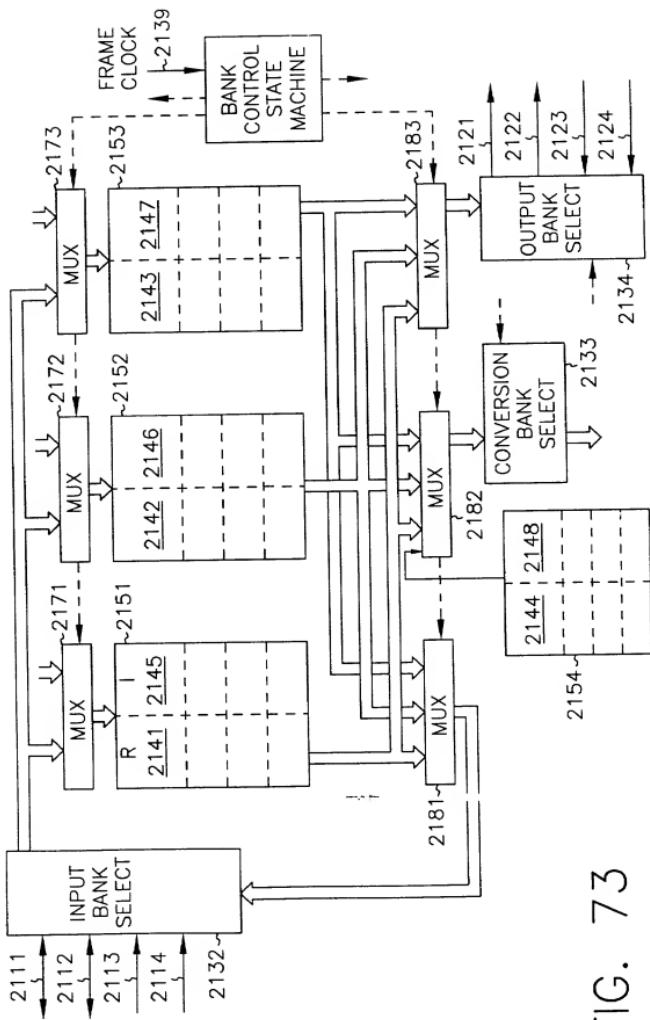
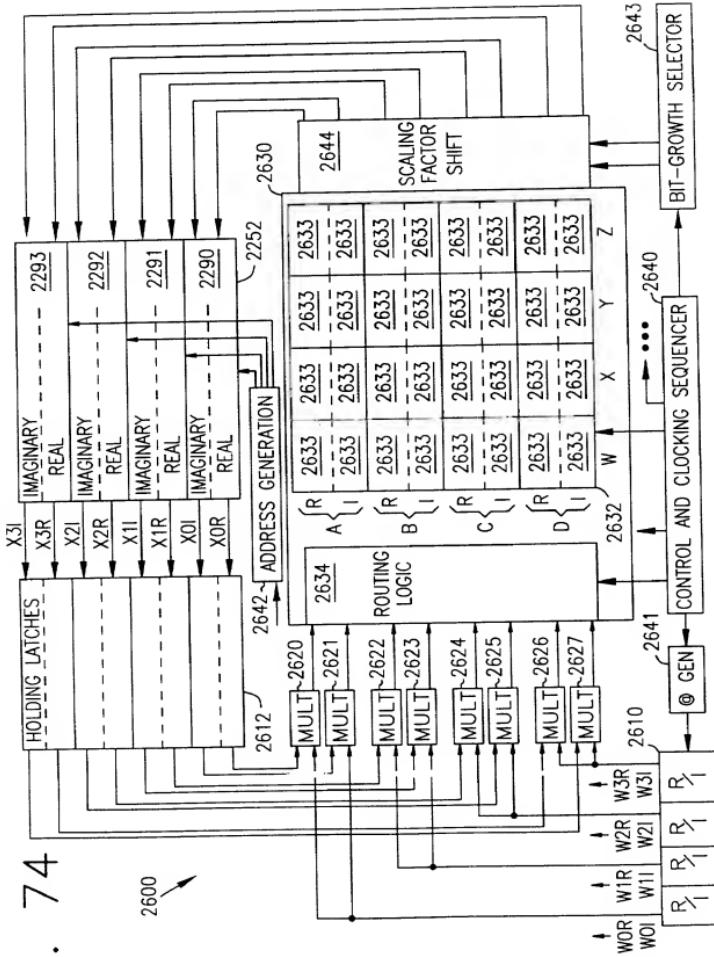


FIG. 73

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FIG. 74



THIS TABLE SHOWS THE ORDER OF CALCULATION FOR A TRANSPOSED BUTTERFLY:

C0

$AWR = WR$	$AXR = XR$	$AYR = YR$	$AZR = ZR$
$AWI = WI$	$AXI = XI$	$AYI = YI$	$AZI = ZI$
$BWR = WR$	$BXR = XR$	$BYR = YR$	$BZR = ZR$
$BWI = WI$	$BXI = XI$	$BYI = YI$	$BZI = ZI$
$CWR = WR$	$CXR = XR$	$CYR = YR$	$CZR = ZR$
$CWI = WI$	$CXI = XI$	$CYI = YI$	$CZI = ZI$
$DWR = WR$	$DXR = XR$	$DYR = YR$	$DZR = ZR$
$DWI = WI$	$DXI = XI$	$DYI = YI$	$DZI = ZI$

FIG. 75

→ 2800

C1

$AWR = AWR - WI$	$AXR = AXR - XI$	$AYR = AYR - YI$	$AZR = AZR - ZI$
$AWI = AWI + WR$	$AXI = AXI + XR$	$AYI = AYI + YR$	$AZI = AZI + ZR$
$BWR = BWR - WI$	$BXR = BXR - XI$	$BYR = BYR - YI$	$BZR = BZR - ZI$
$BWI = BWI + WR$	$BXI = BXI + XR$	$BYI = BYI + YR$	$BZI = BZI + ZR$
$CWR = CWR - WI$	$CXR = CXR - XI$	$CYR = CYR - YI$	$CZR = CZR - ZI$
$CWI = CWI + WR$	$CXI = CXI + XR$	$CYI = CYI + YR$	$CZI = CZI + ZR$
$DWR = DWR - WI$	$DXR = DXR - XI$	$DYR = DYR - YI$	$DZR = DZR - ZI$
$DWI = DWI + WR$	$DXI = DXI + XR$	$DYI = DYI + YR$	$DZI = DZI + ZR$

FIG. 76

→ 2800

~2632

~2632

C2

$AWR=AWR + WR$	$AXR=AXR + XI$	$AYR=AYR - YR$	$AZR=AZR - ZR$
$AWI=AWI + WI$	$AXI=AXI - XI$	$AYI=AYI - YI$	$AZI=AZI + ZR$
$BWR=BWR + WR$	$BXR=BXR + XI$	$BYR=BYR - YR$	$BZR=BZR - ZR$
$BWI=BWI + WI$	$BXI=BXI - XR$	$BYI=BYI - YI$	$BZI=BZI + ZR$
$CWR=CWR + WR$	$CXR=CXR + XI$	$CYR=CYR - YR$	$CZR=CZR - ZR$
$CWI=CWI + WI$	$CXI=CXI - XR$	$CYI=CYI - YI$	$CZI=CZI + ZR$
$DWR=DWR + WR$	$DXR=DXR + XI$	$DYR=DYR - YR$	$DZR=DZR - ZR$
$DWI=DWI + WI$	$DXI=DXI - XR$	$DYI=DYI - YI$	$DZI=DZI + ZR$

FIG. 77

C3

$AWR=AWR - WI$	$AXR=AXR + XR$	$AYR=AYR + YI$	$AZR=AZR - ZR$
$AWI=AWI + WR$	$AXI=AXI + XI$	$AYI=AYI - YR$	$AZI=AZI - ZI$
$BWR=BWR - WI$	$BXR=BXR + XR$	$BYR=BYR + YI$	$BZR=BZR - ZR$
$BWI=BWI + WR$	$BXI=BXI + XI$	$BYI=BYI - YR$	$BZI=BZI - ZI$
$CWR=CWR - WI$	$CXR=CXR + XR$	$CYR=CYR + YI$	$CZR=CZR - ZR$
$CWI=CWI + WR$	$CXI=CXI + XI$	$CYI=CYI - YR$	$CZI=CZI - ZI$
$DWR=DWR - WI$	$DXR=DXR + XI$	$DYR=DYR + YI$	$DZR=DZR - ZR$
$DWI=DWI + WR$	$DXI=DXI + XI$	$DYI=DYI - YR$	$DZI=DZI - ZI$

FIG. 78

C4

$AWR=AWR + WR$	$AXR=AXR - XR$	$AYR=AYR + YR$	$AZR=AZR - ZR$
$AWI=AW'$	$AXI=AXI - XI$	$AYI=AYI + YI$	$AZI=AZI - ZI$
$BWR=BWR + WR$	$BXR=BXR - XR$	$BYR=BYR + YR$	$BZR=BZR - ZR$
$BWI=BWI + WI$	$BXI=BXI - XI$	$BYI=BYI + YI$	$BZI=BZI - ZI$
$CWR=CWR + WR$	$CXR=CXR - XR$	$CYR=CYR + YR$	$CZR=CZR - ZR$
$CWI=CWI + WI$	$CXI=CXI - XI$	$CYI=CYI + YI$	$CZI=CZI - ZI$
$DWR=DWR + WR$	$DXR=DXR - XR$	$DYR=DYR + YR$	$DZR=DZR - ZR$
$DWI=DWI + WI$	$DXI=DXI - XI$	$DYI=DYI + YI$	$DZI=DZI - ZI$

→ 2800

F1G. 79

~2632

~2632

→ 2800

F1G. 80

C5

$AWR=AWR - WI$	$AXR=AXR + XI$	$AYR=AYR - YI$	$AZR=AZR + ZI$
$AWI=AWI + WR$	$AXI=AXI - XR$	$AYI=AYI + YR$	$AZI=AZI - ZR$
$BWR=BWR - WI$	$BXR=BXR + XI$	$BYR=BYR - YI$	$BZR=BZR + ZI$
$BWI=BWI + WR$	$BXI=BXI - XR$	$BYI=BYI + YR$	$BZI=BZI - ZR$
$CWR=CWR - WI$	$CXR=CXR + XI$	$CYR=CYR - YI$	$CZR=CZR + ZI$
$CWI=CWI + WR$	$CXI=CXI - XR$	$CYI=CYI + YR$	$CZI=CZI - ZR$
$DWR=DWR - WI$	$DXR=DXR + XI$	$DYR=DYR - YI$	$DZR=DZR + ZI$
$DWI=DWI + WR$	$DXI=DXI - XR$	$DYI=DYI + YR$	$DZI=DZI - ZR$

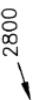
~2800

C5

C6

$AWR=AWR + WR$ $AWI=AWI + WI$	$AXR=AXR - XI$ $AXI=AXI + XR$	$AYR=AYR - YR$ $AYI=AYI - YI$	$AZR=AZR + ZI$ $AZI=AZI - ZR$
$BWR=BWR + WR$ $BWI=BWI + WI$	$BXR=BXR - XI$ $BXI=BXI + XR$	$BYR=BYR - YR$ $BYI=BYI - YI$	$BZR=BZR + ZI$ $BZI=BZI - ZR$
$CWR=CWR + WR$ $CWI=CWI + WI$	$CXR=CXR - XI$ $CXI=CXI + XR$	$CYR=CYR - YR$ $CYI=CYI - YI$	$CZR=CZR + ZI$ $CZI=CZI - ZR$
$DWR=DWR + WR$ $DWI=DWI + WI$	$DXR=DXR - XI$ $DXI=DXI + XR$	$DYR=DYR - YR$ $DYI=DYI - YI$	$DZR=DZR + ZI$ $DZI=DZI - ZR$

FIG. 81



$AWR=AWR - WI$ $AWI=AWI + WR$	$AXR=AXR - XR$ $AXI=AXI - XI$	$AYR=AYR + YI$ $AYI=AYI - YR$	$AZR=AZR - ZR$ $AZI=AZI + ZI$
$BWR=BWR - WI$ $BWI=BWI + WR$	$BXR=BXR - XR$ $BXI=BXI - XI$	$BYR=BYR + YI$ $BYI=BYI - YR$	$BZR=BZR - ZR$ $BZI=BZI + ZI$
$CWR=CWR - WI$ $CWI=CWI + WR$	$CXR=CXR - XR$ $CXI=CXI - XI$	$CYR=CYR + YI$ $CYI=CYI - YR$	$CZR=CZR - ZR$ $CZI=CZI + ZI$
$DWR=DWR - WI$ $DWI=DWI + WR$	$DXR=DXR - XR$ $DXI=DXI - XI$	$DYR=DYR + YI$ $DYI=DYI - YR$	$DZR=DZR - ZR$ $DZI=DZI + ZI$

C7



$AWR=AWR - WI$ $AWI=AWI + WR$	$AXR=AXR - XR$ $AXI=AXI - XI$	$AYR=AYR + YI$ $AYI=AYI - YR$	$AZR=AZR - ZR$ $AZI=AZI + ZI$
$BWR=BWR - WI$ $BWI=BWI + WR$	$BXR=BXR - XR$ $BXI=BXI - XI$	$BYR=BYR + YI$ $BYI=BYI - YR$	$BZR=BZR - ZR$ $BZI=BZI + ZI$
$CWR=CWR - WI$ $CWI=CWI + WR$	$CXR=CXR - XR$ $CXI=CXI - XI$	$CYR=CYR + YI$ $CYI=CYI - YR$	$CZR=CZR - ZR$ $CZI=CZI + ZI$
$DWR=DWR - WI$ $DWI=DWI + WR$	$DXR=DXR - XR$ $DXI=DXI - XI$	$DYR=DYR + YI$ $DYI=DYI - YR$	$DZR=DZR - ZR$ $DZI=DZI + ZI$

FIG. 82

$AWR=AWR + WR$ $AWI=AWI - WI$	$AXR=AXR + XR$ $AXI=AXI + XI$	$AYR=AYR - YI$ $AYI=AYI + YR$	$AZR=AZR - ZR$ $AZI=AZI + ZI$
$BWR=BWR + WR$ $BWI=BWI - WI$	$BXR=BXR + XR$ $BXI=BXI - XI$	$BYR=BYR + YI$ $BYI=BYI - YR$	$BZR=BZR + ZR$ $BZI=BZI - ZI$
$CWR=CWR + WR$ $CWI=CWI - WI$	$CXR=CXR + XR$ $CXI=CXI - XI$	$CYR=CYR - YI$ $CYI=CYI + YR$	$CZR=CZR + ZR$ $CZI=CZI - ZI$
$DWR=DWR + WR$ $DWI=DWI - WI$	$DXR=DXR + XR$ $DXI=DXI - XI$	$DYR=DYR + YI$ $DYI=DYI - YR$	$DZR=DZR + ZR$ $DZI=DZI - ZI$

FIG. 82

THIS TABLE SHOWS THE ORDER OF CALCULATION FOR A TRANSPOSED BUTTERFLY:

CO			
$AWR = AWR + WR + YR + ZR$	$AWI = AWI + WR + YR + ZR$	$AXR = AXR - X - Y - Z$	$AYR = AYR - W - X - Y - Z$
$AWI = AWI + X + Y + Z$	$AWI = AWI + X + Y + Z$	$AXI = AXI - W - X - Y - ZR$	$AYI = AYI - W - X - Y - ZR$
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

CO			
$AWR = AWR - (W + X + Y + Z)$	$AWI = AWI + (W + X + Y + ZR)$	$AXR = AXR - (W + X - Y - ZR)$	$AYR = AYR - (W - X - Y - Z)$
$AWI = AWI + (WR + YR + ZR)$	$AWI = AWI + (WR + YR + ZR)$	$AXI = AXI + (WR - X - YR + Z)$	$AYI = AYI + (WR - XR + YR - ZR)$
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

FIG. 83

C1			
$AWR = AWR - (W + X + Y + Z)$	$AWI = AWI + (W + X + Y + ZR)$	$AXR = AXR - (W + X - Y - ZR)$	$AYR = AYR - (W - X - Y - Z)$
$AWI = AWI + (WR + YR + ZR)$	$AWI = AWI + (WR + YR + ZR)$	$AXI = AXI + (WR - X - YR + Z)$	$AYI = AYI + (WR - XR + YR - ZR)$
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

2632			
$AZR = AZR - (W + X - Y - Z)$	$AZI = AZI + (W + X - Y - ZR)$	$AYR = AYR - (W - X - Y - Z)$	$AZR = AZR - (W - X - Y - ZR)$
$AZI = AZI + (WR + X - YR + ZR)$	$AZI = AZI + (WR + X - YR + ZR)$	$AYI = AYI + (WR - XR + YR - ZR)$	$AZI = AZI + (WR + X - YR - ZI)$
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

FIG. 84

C2			
-	-	-	-
-	-	-	-
$BWR = WR + XR + YR + ZR$ $BWI = WI + XI + YI + ZI$	$BXR = WR - XI - YR + ZI$ $BXI = WI + XR - YI - ZR$	$BYR = WR - XR + YR - ZR$ $BYI = WI - XI + YI - ZI$	$BZR = WR + XI - YR - ZI$ $BZI = WI - XR - YI + ZR$
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

FIG. 85

C3			
-	-	-	-
-	-	-	-
$BWR = WR - (WI + XI + YI + ZI)$ $BWI = WI + (WR + XR + YR + ZR)$	$BXR = WR - (WI + XR - YI - ZR)$ $BXI = BXI + (WR - XI - YR + ZR)$	$BYR = BYR - (WI - XI + YI - ZI)$ $BYI = BYI + (WR - XR + YR - ZR)$	$BZR = BZR - (WI - XR - YI + ZR)$ $BZI = BZI + (WR + XI - YR - ZI)$
-	-	-	-
-	-	-	-
-	-	-	-
-	-	-	-

FIG. 86

C4

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
$CWR = WR + XR + YR + ZR$	$CXR = WR - XI - YR + ZI$	$CYR = WR - XR + YR - ZR$	$CZR = WR + XI - YR - ZI$	2810
$CWI = WI + XI + YI + ZI$	$CXI = WI + XR - YI - ZR$	$CYI = WI - XI + YI - ZI$	$CZI = WI - XR - YI + ZR$	2810
-	-	-	-	-
-	-	-	-	-

FIG. 87

C5

-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
$CWR = WR + XI + YI + ZI$	$CXR = CXR - (WI - XI + YI - ZI)$	$CYR = CYR - (WI - XR - YI - ZR)$	$CZR = CZR - (WI - XR - YI - ZR)$	2632
$CWI = CWI + (WR + XR + YR + ZR)$	$CXI = CXI + (WR - XI - YR + ZI)$	$CYI = CYI + (WR - XR + YR - ZR)$	$CZI = CZI + (WR + XI - YR - ZI)$	2632
-	-	-	-	-
-	-	-	-	-

FIG. 88

Y<sub>1</sub> Z<sub>1</sub> G<sub>1</sub> G<sub>2</sub> G<sub>3</sub> G<sub>4</sub> G<sub>5</sub> G<sub>6</sub> G<sub>7</sub> G<sub>8</sub> G<sub>9</sub> G<sub>10</sub> G<sub>11</sub> G<sub>12</sub> G<sub>13</sub> G<sub>14</sub> G<sub>15</sub> G<sub>16</sub> G<sub>17</sub> G<sub>18</sub> G<sub>19</sub> G<sub>20</sub> G<sub>21</sub>

C6

		C6		C7		C8	
		2632		2810		2810	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
DWR = WR + XR + YR + ZR DWI = WI + XI + YI + ZI	DXR = WR - XI - YR + ZI DXI = WI + XR - YI - ZR	DYR = WR - XR + YR - ZR DYI = WI - XI + YI - ZI	DZR = WR + XI - YR - ZI DZI = WI - XR - YI - ZR	DZR = DZR - (WI - XR - YI + ZR) DZI = DZI + (WR - XR + YR - ZR)	DYR = DYR - (WI - XI + YI - ZI) DYI = DYI + (WR + XI - YR - ZI)	DZR = DZR - (WI - XR - YI + ZR) DZI = DZI + (WR + XI - YR - ZI)	DYR = DYR - (WI - XI + YI - ZI) DYI = DYI + (WR + XI - YR - ZI)

FIG. 89

C7

		C6		C7		C8	
		2632		2810		2810	
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
-	-	-	-	-	-	-	-
DWR = DWR - (WI + XI + YI + ZI) DWI = DWI + (WR + XR + YR + ZR)	DXR = DXR - (WI + XR - YI - ZR) DXI = DXI + (WR - XI - YR + ZI)	DYR = DYR - (WI - XI + YI - ZI) DYI = DYI + (WR + XI - YR - ZI)	DZR = DZR - (WI - XR - YI + ZR) DZI = DZI + (WR + XI - YR - ZI)	DZR = DZR - (WI - XR - YI + ZR) DZI = DZI + (WR + XI - YR - ZI)	DYR = DYR - (WI - XI + YI - ZI) DYI = DYI + (WR + XI - YR - ZI)	DZR = DZR - (WI - XR - YI + ZR) DZI = DZI + (WR + XI - YR - ZI)	DYR = DYR - (WI - XI + YI - ZI) DYI = DYI + (WR + XI - YR - ZI)

FIG. 90

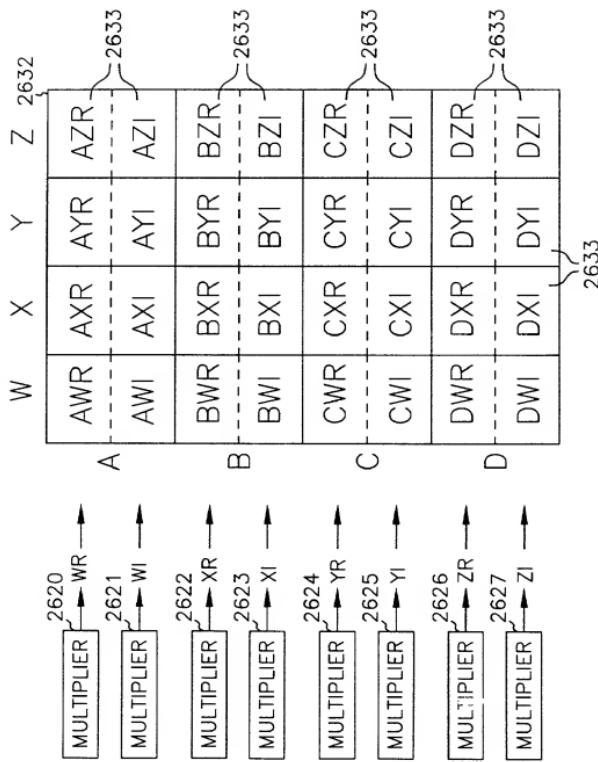


FIG. 91

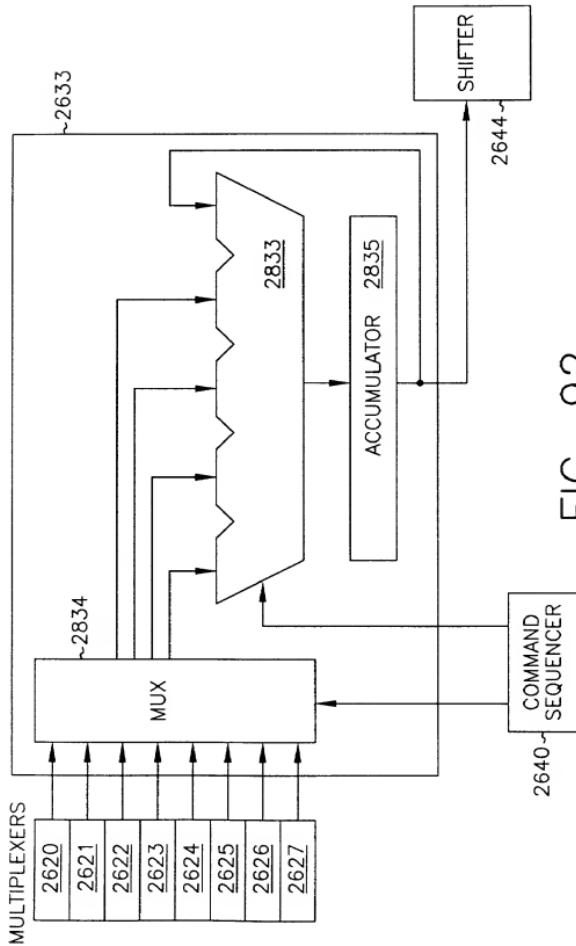


FIG. 92

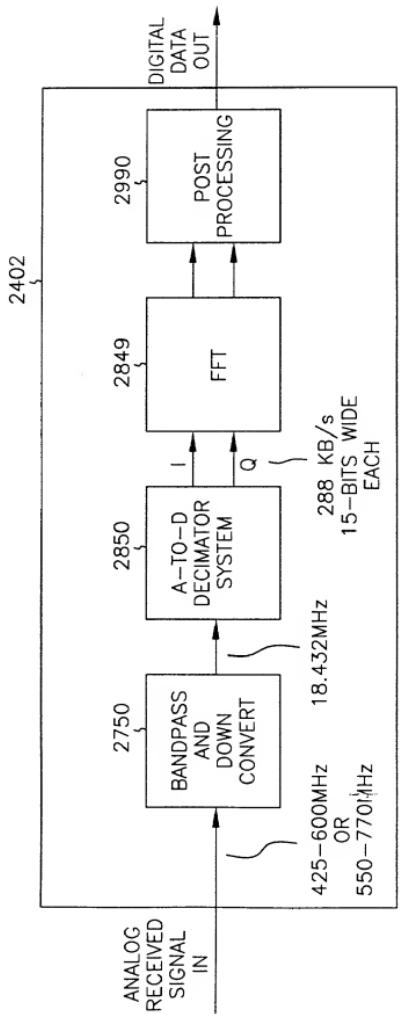
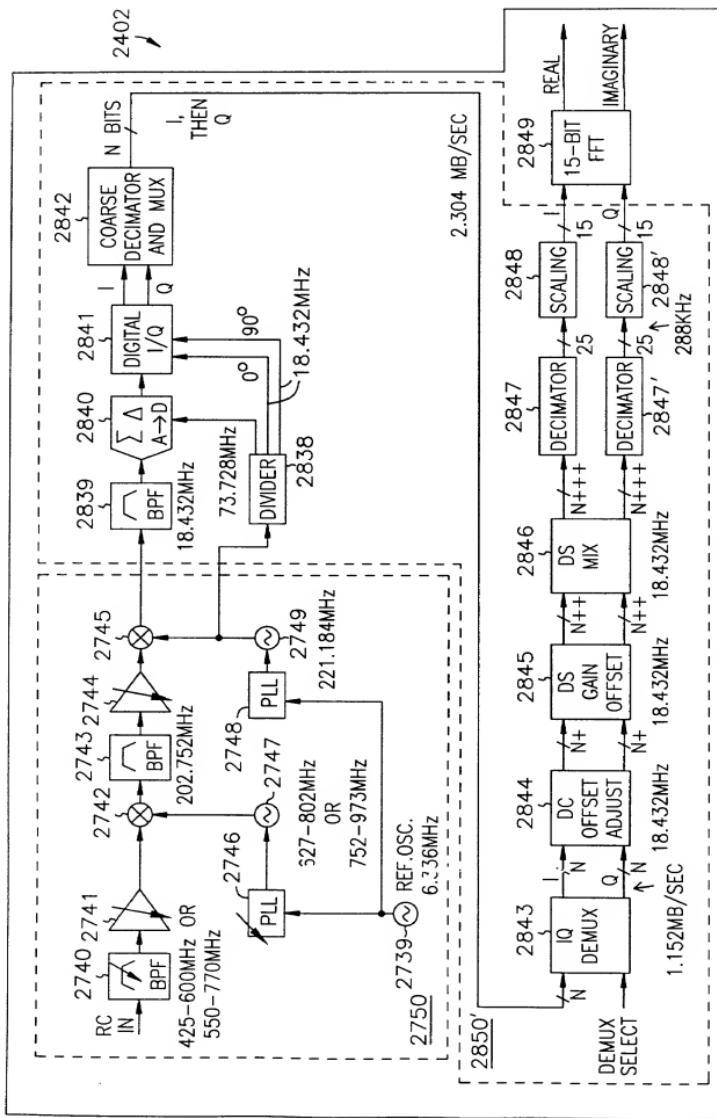


FIG. 93

FIG. 94



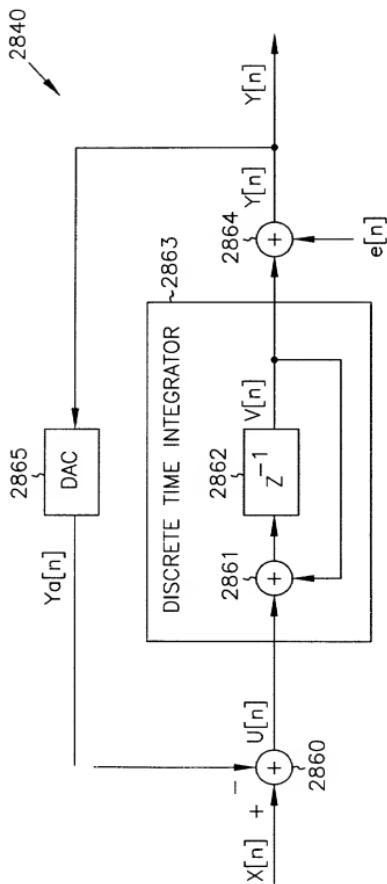


FIG. 95

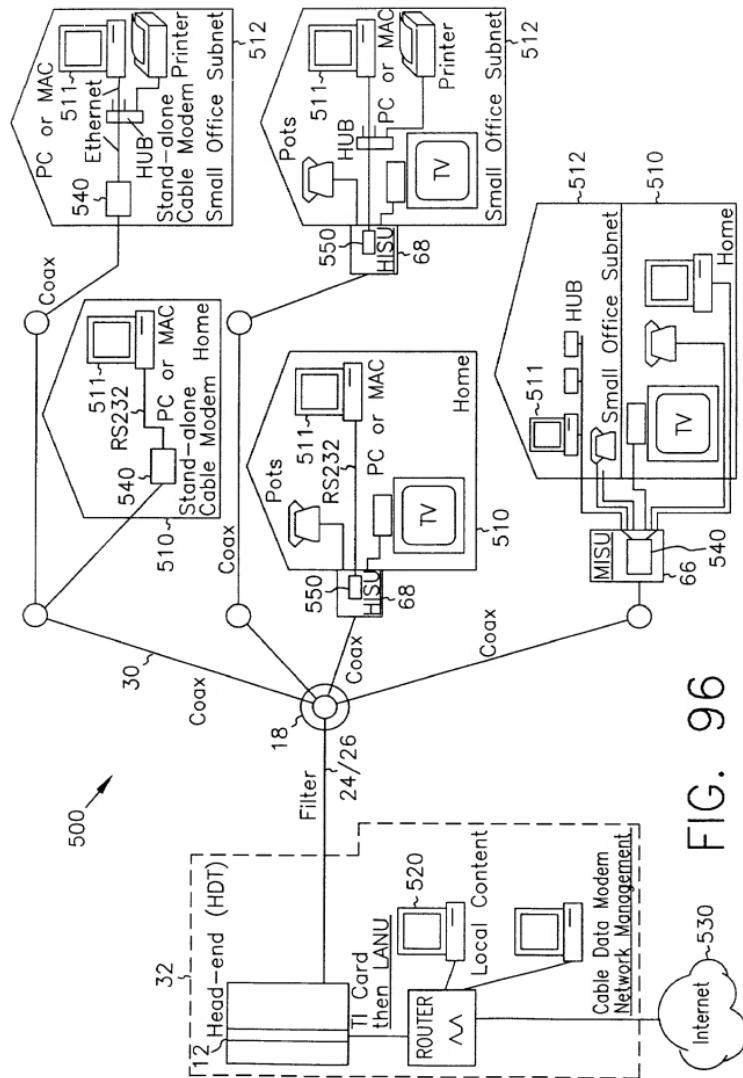
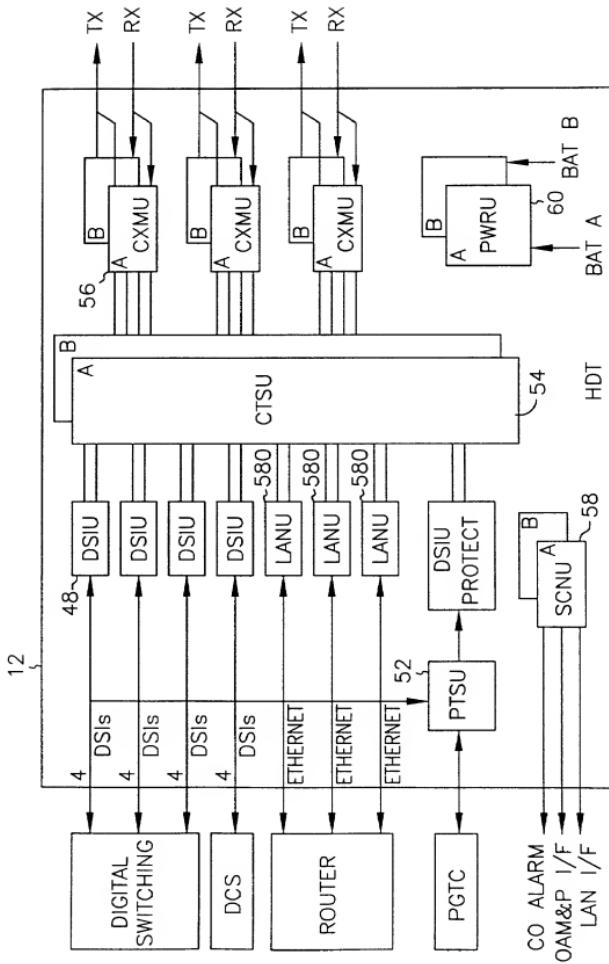


FIG. 96

FIG. 97



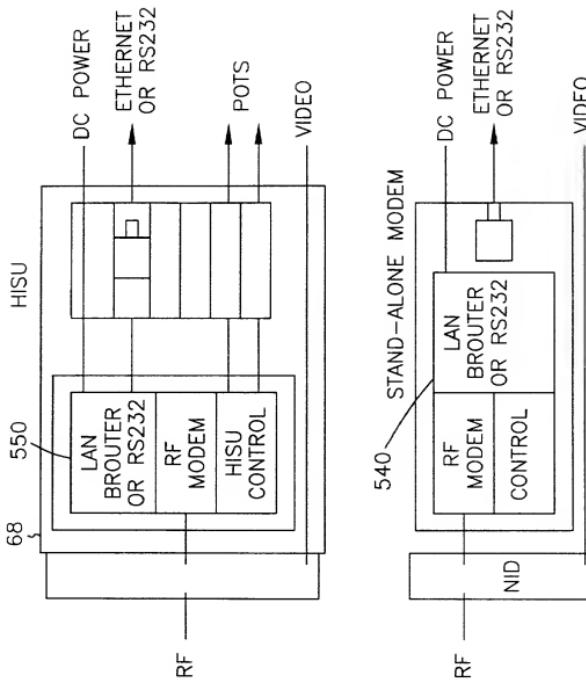


FIG. 98

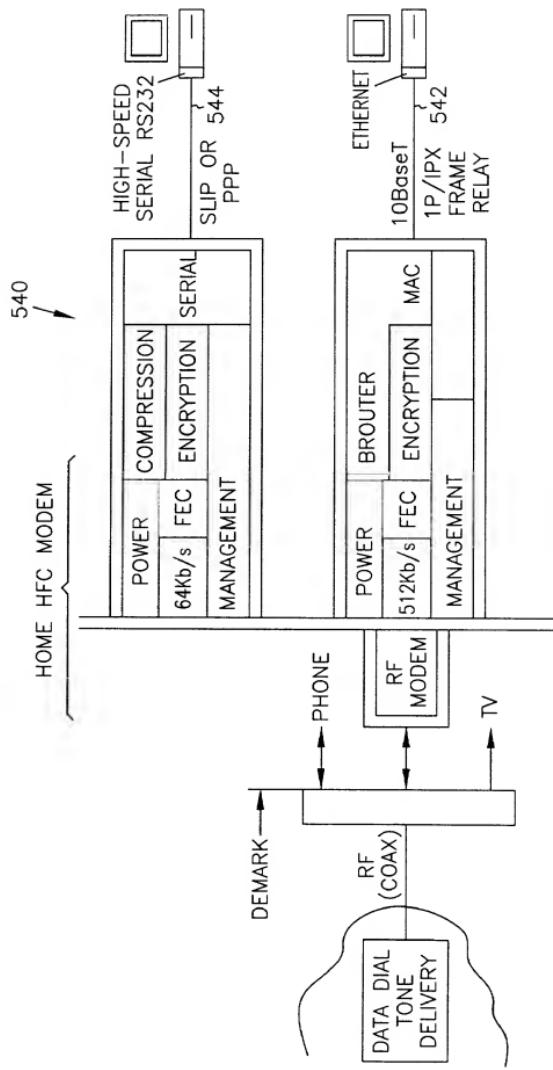


FIG. 99

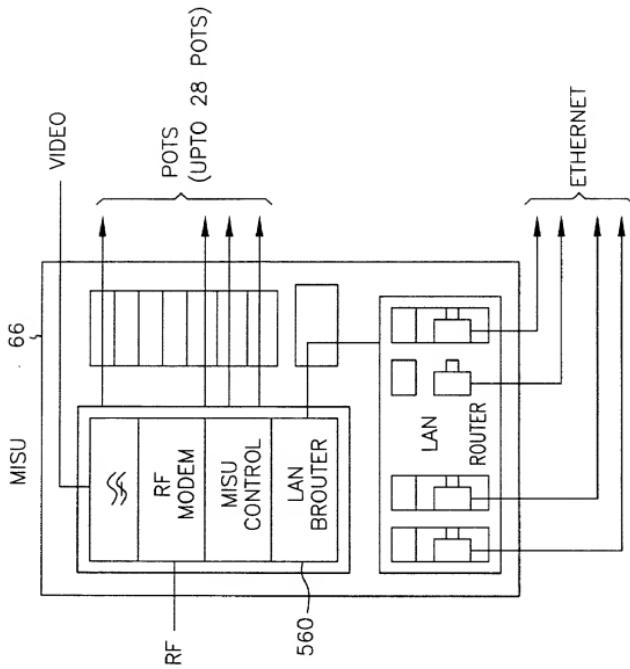


FIG. 100

FIG. 101

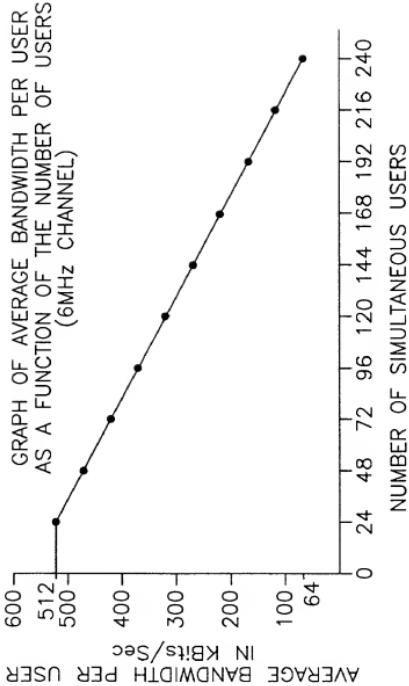
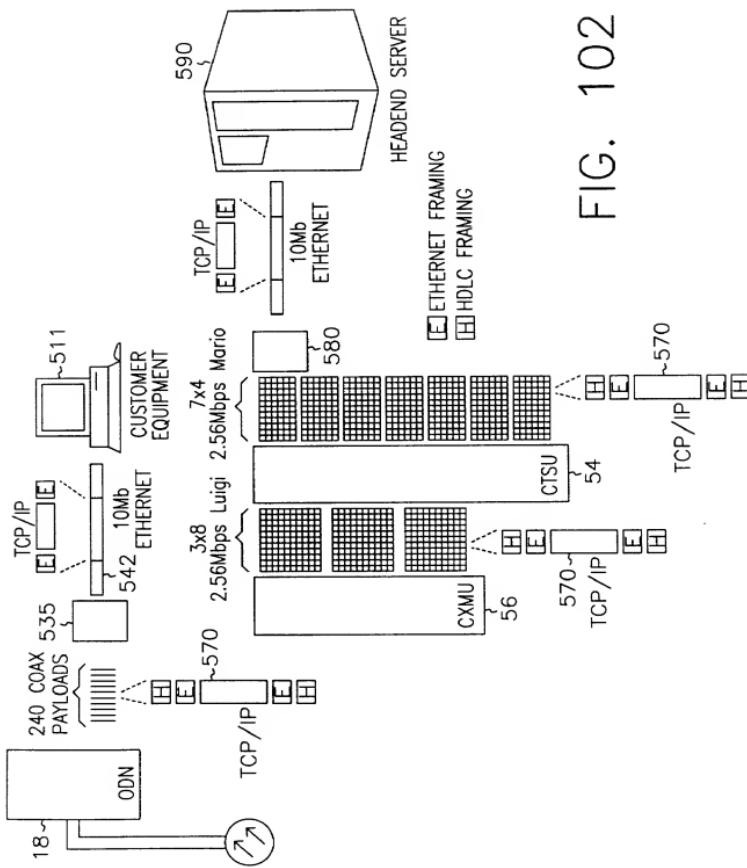


FIG. 102



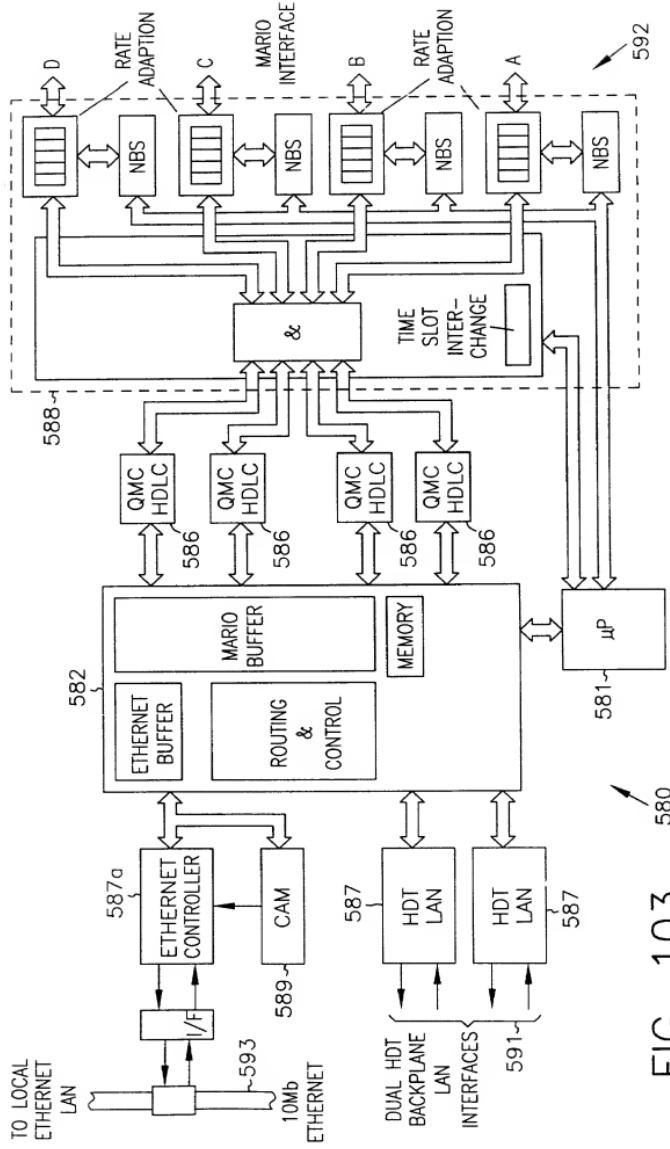


FIG. 103

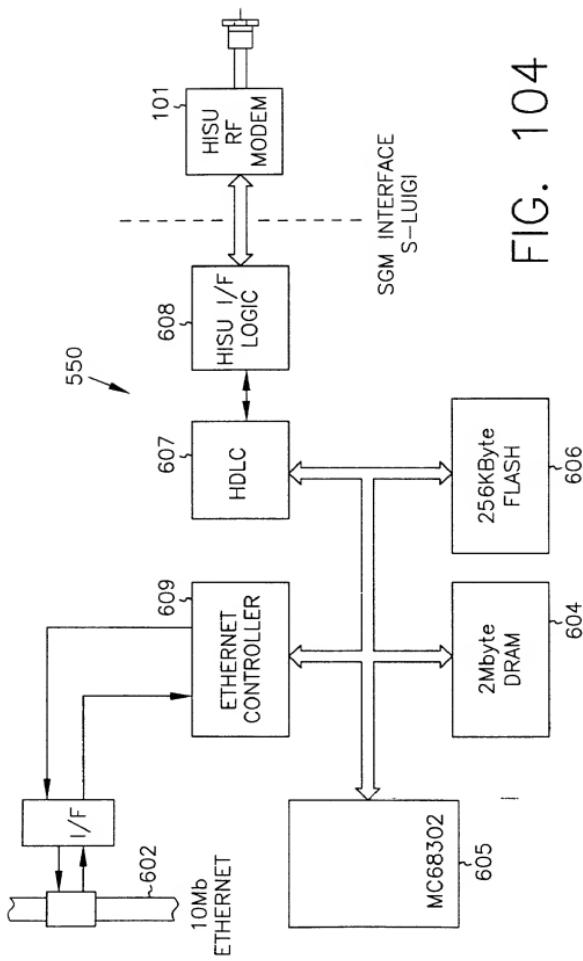


FIG. 104

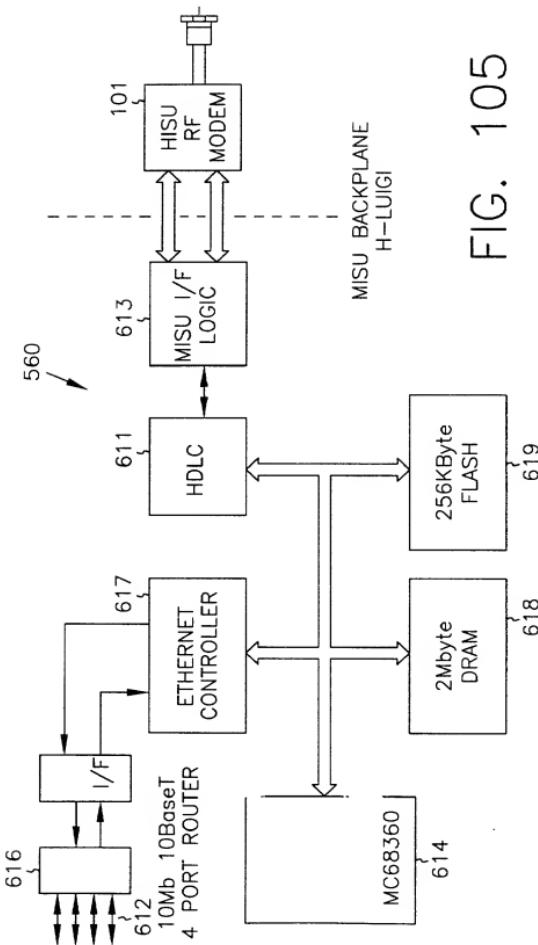
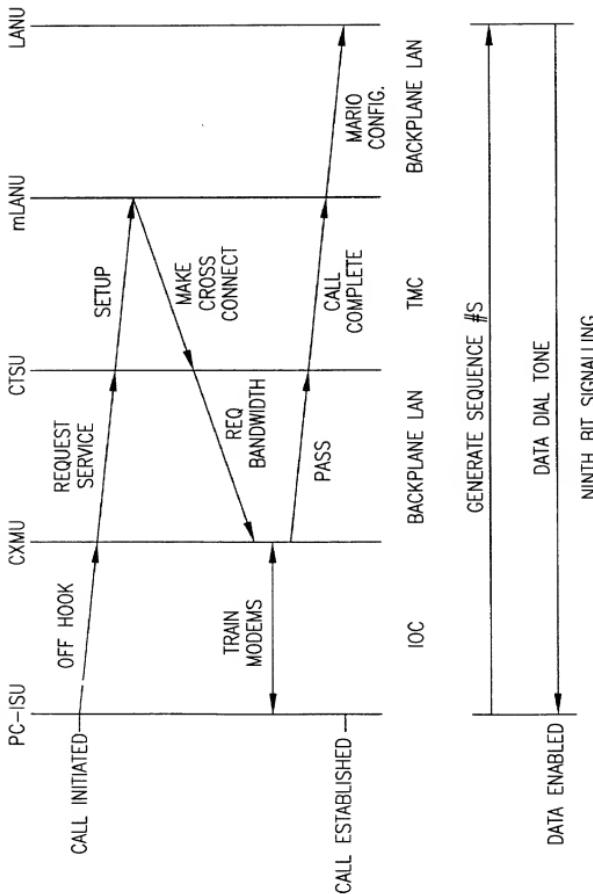


FIG. 105

FIG. 106



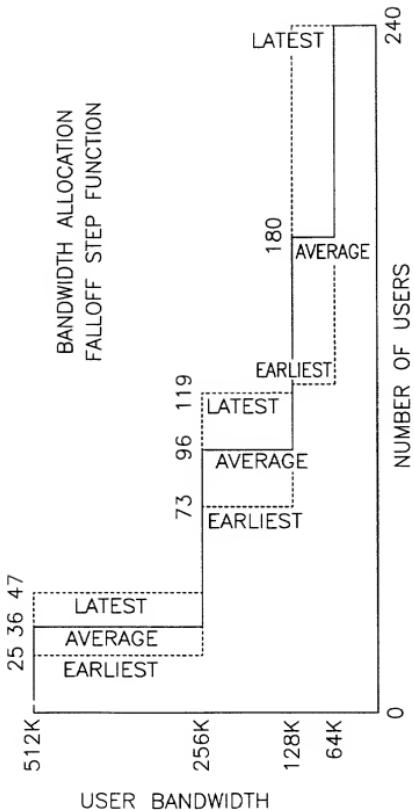


FIG. 107

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

THE RF SPECTRUM OF 24 USERS WITH 512Kbs

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ADDING THE 25th USER

1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	26
---	---	---	---	---	---	---	---	---	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----	----

ADDING THE 26th USER, ETC

FIG. 108

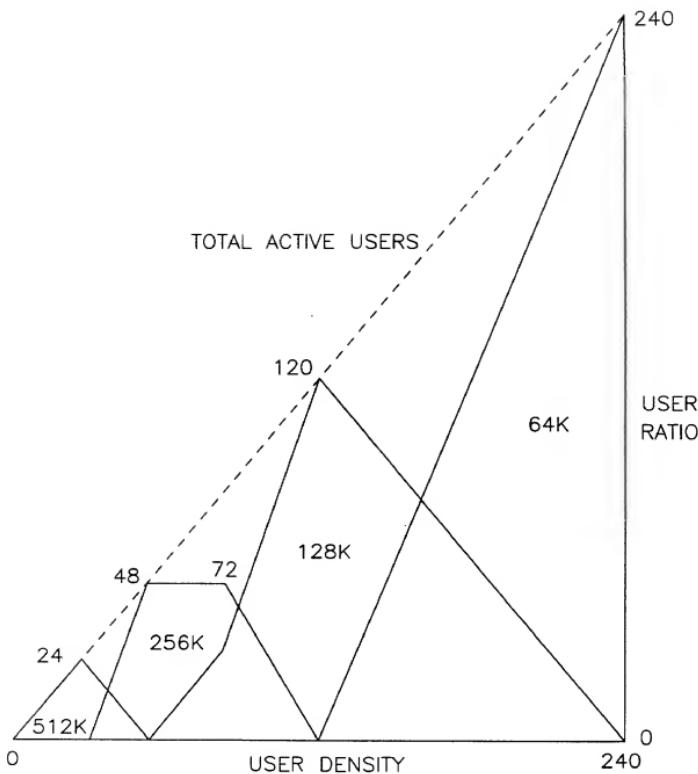
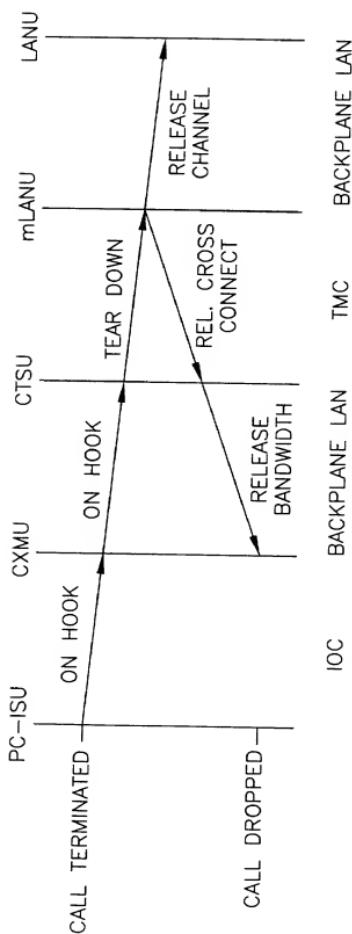


FIG. 109

FIG. 110



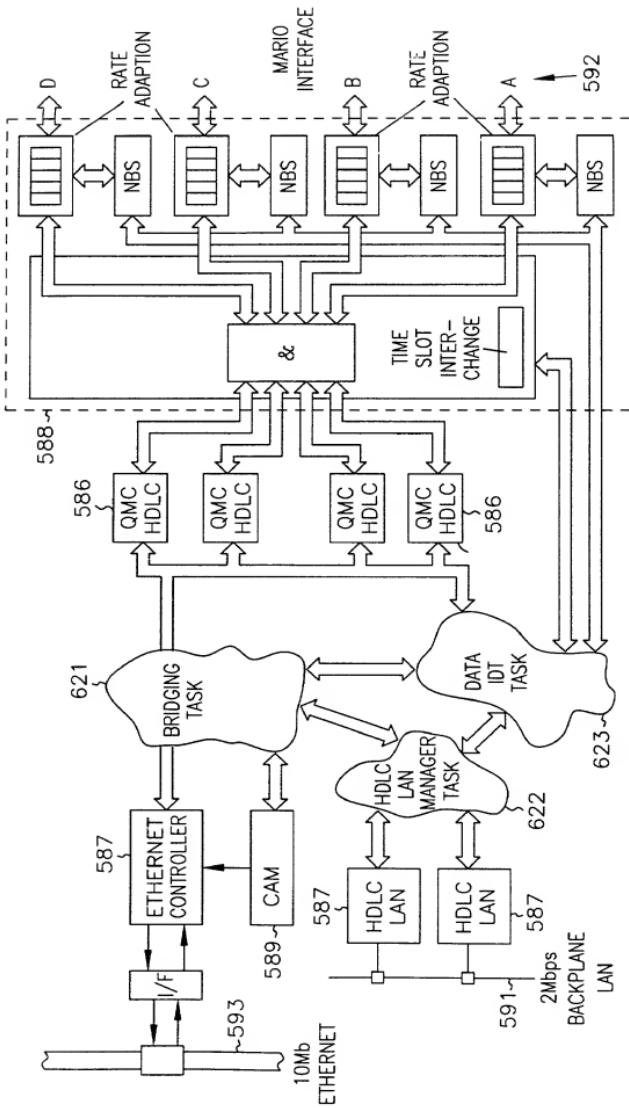
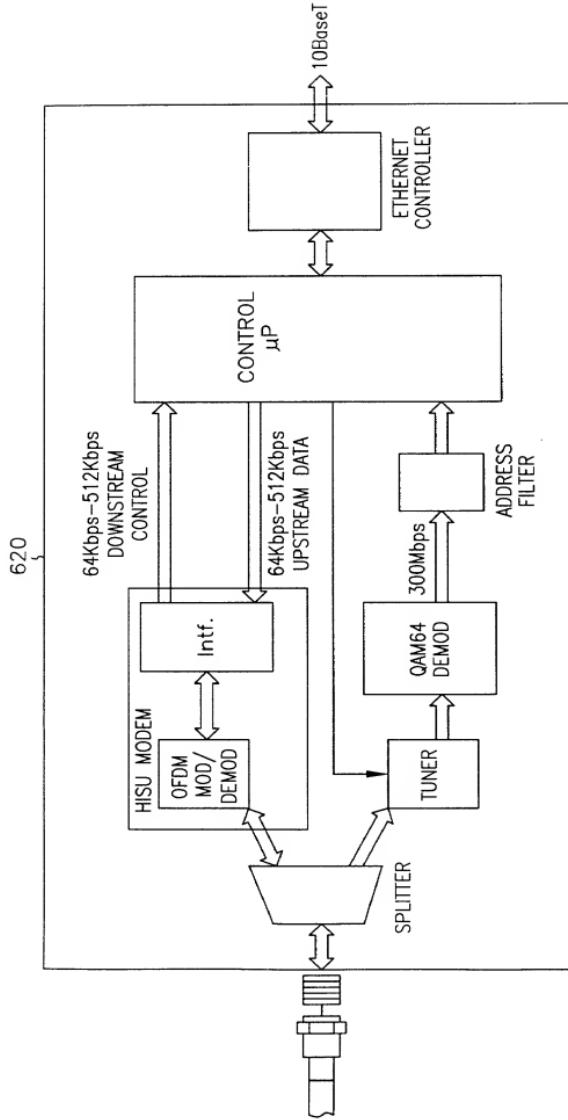


FIG. 111

620

FIG. 112



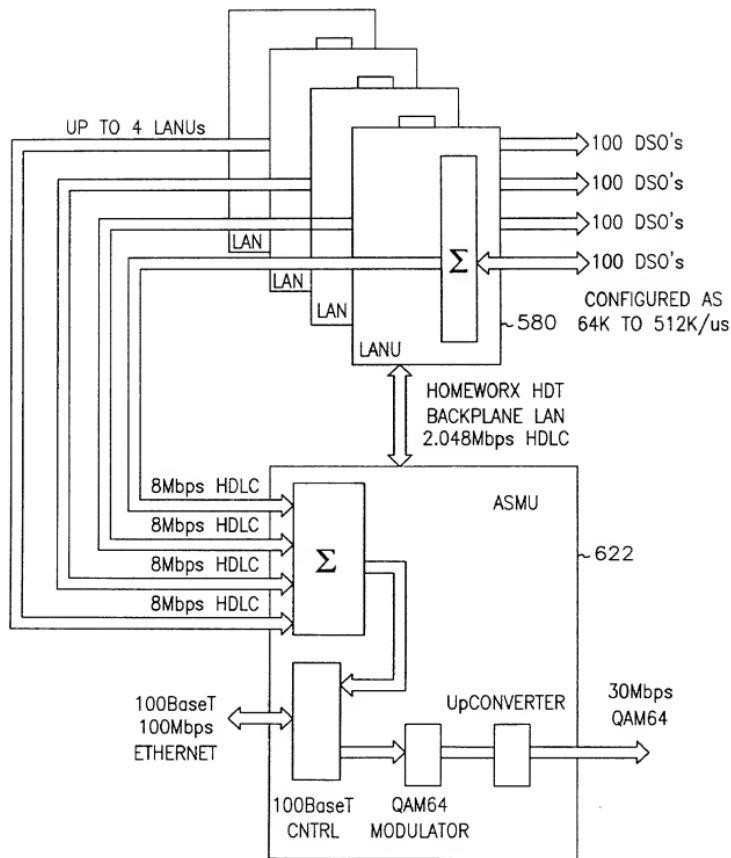
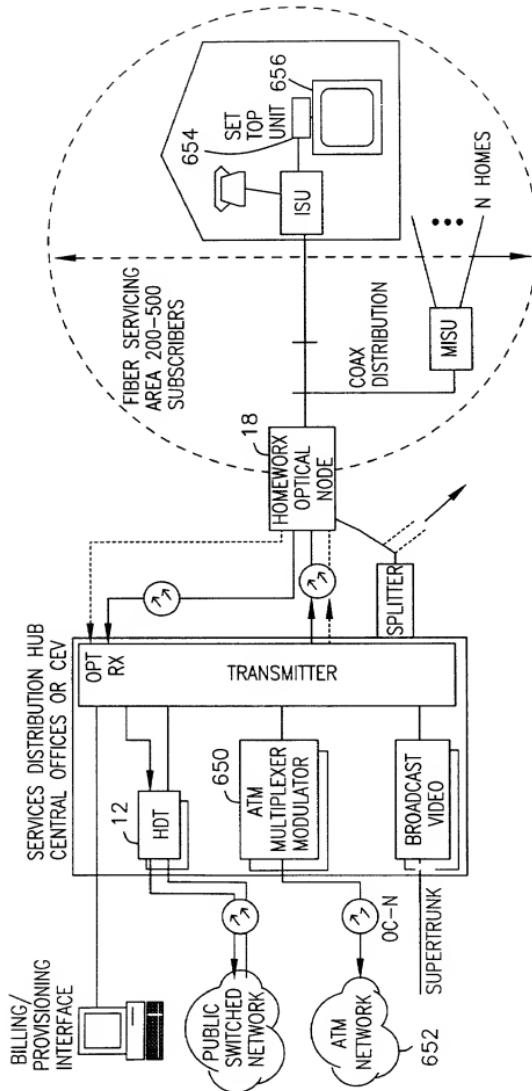


FIG. 113

FIG. 114



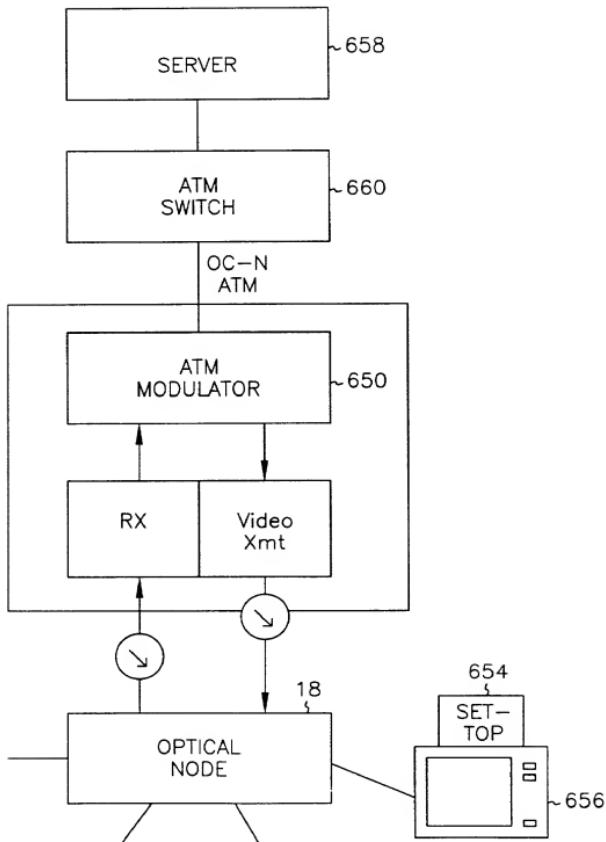
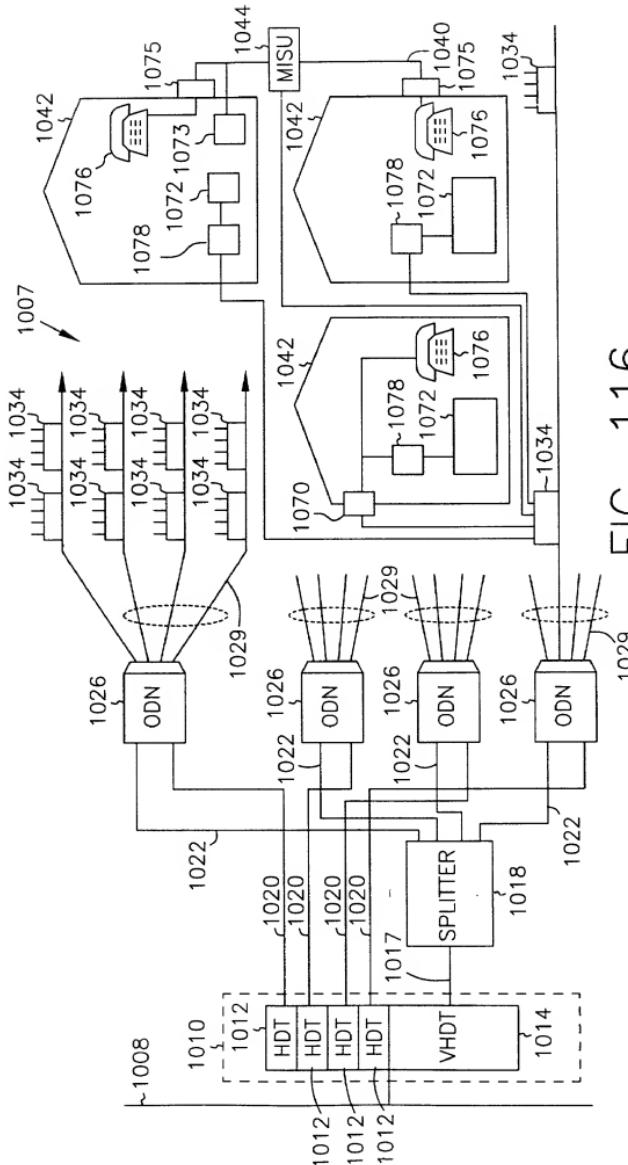


FIG. 115

FIG. 116



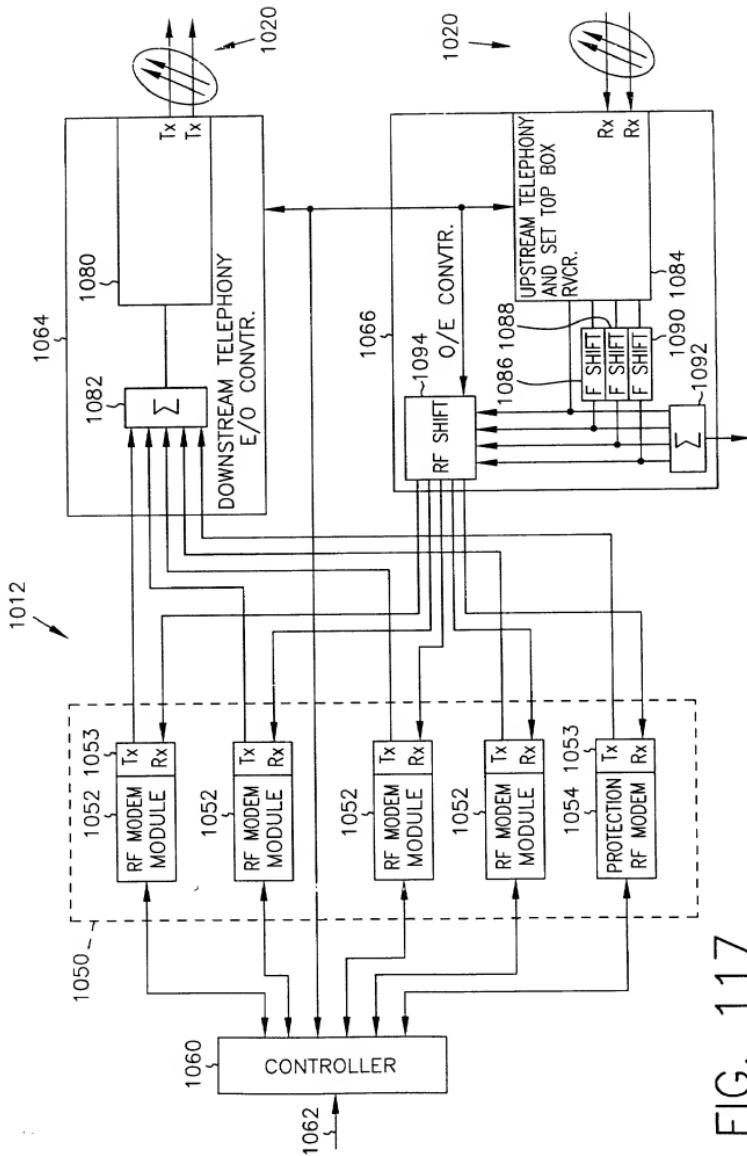


FIG. 117

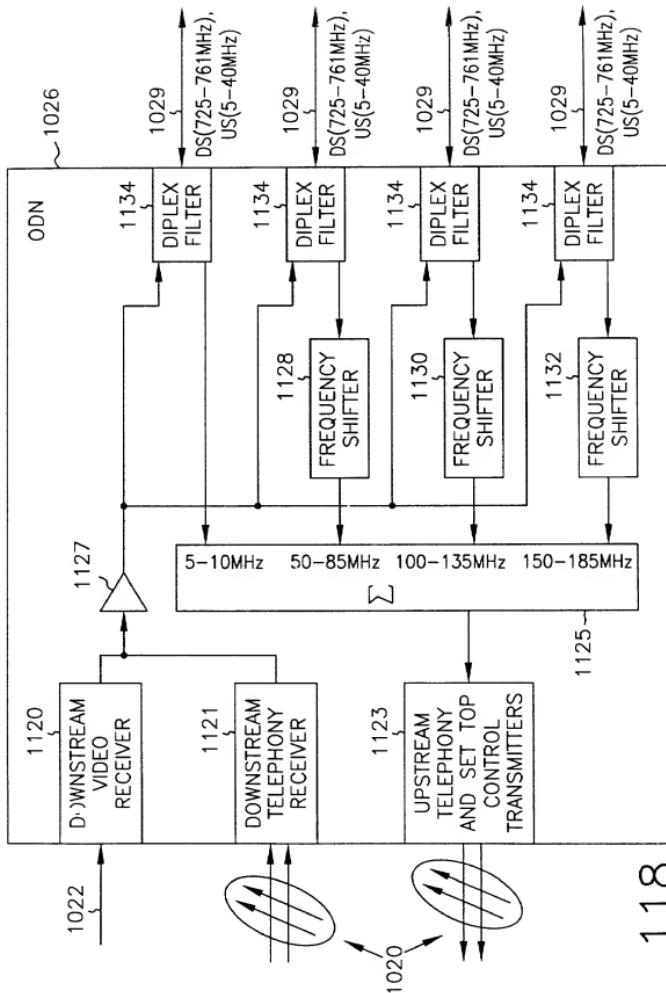


FIG. 118

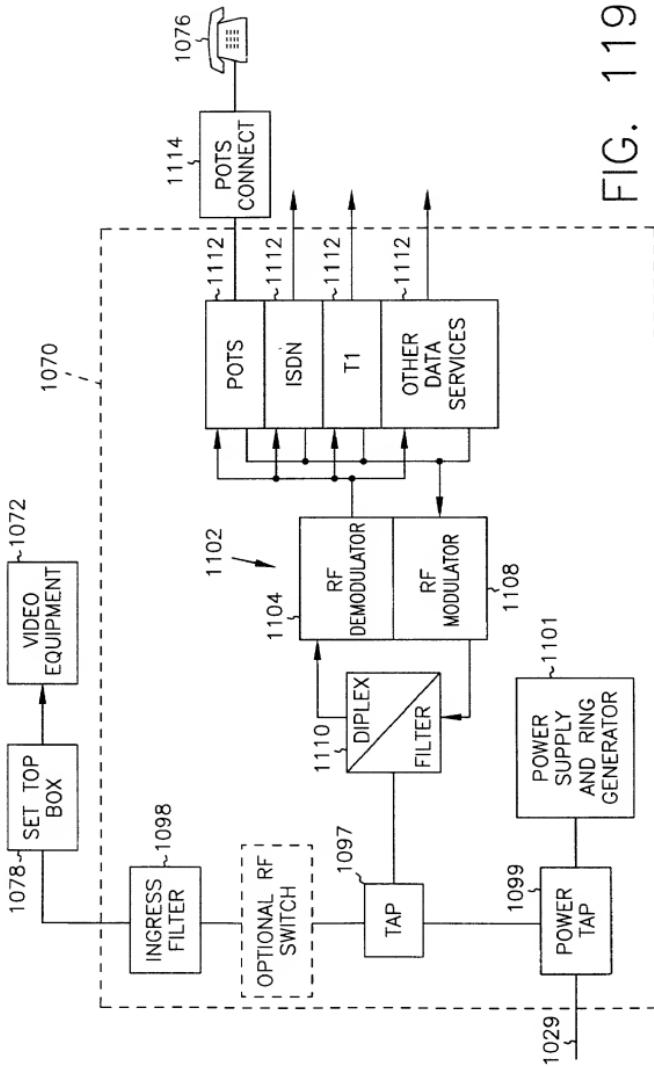
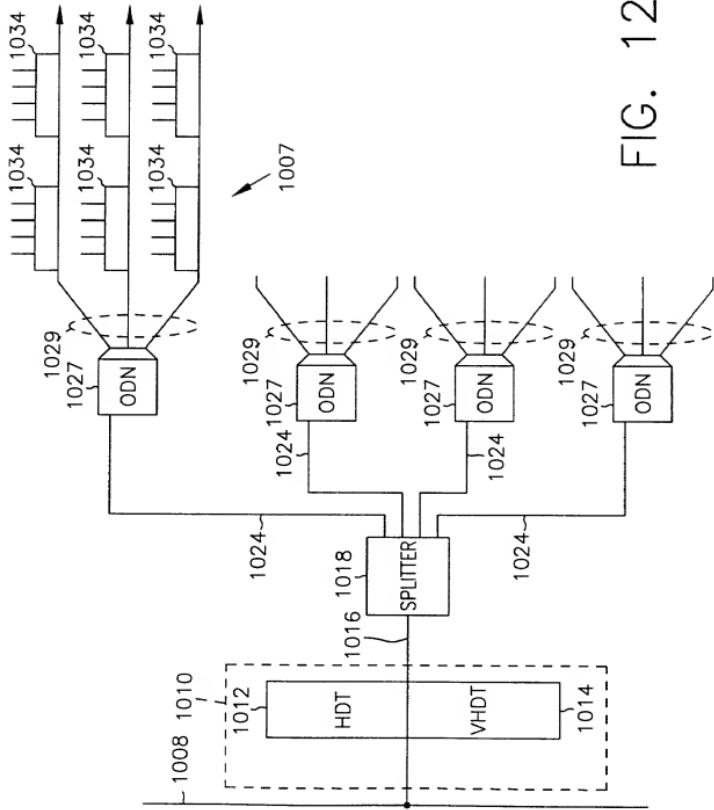


FIG. 119

FIG. 120



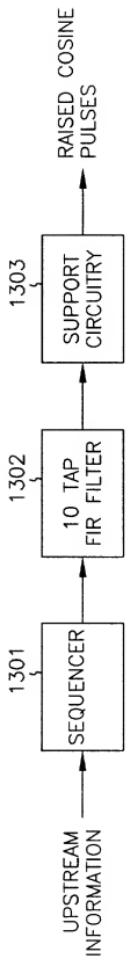


FIG. 121

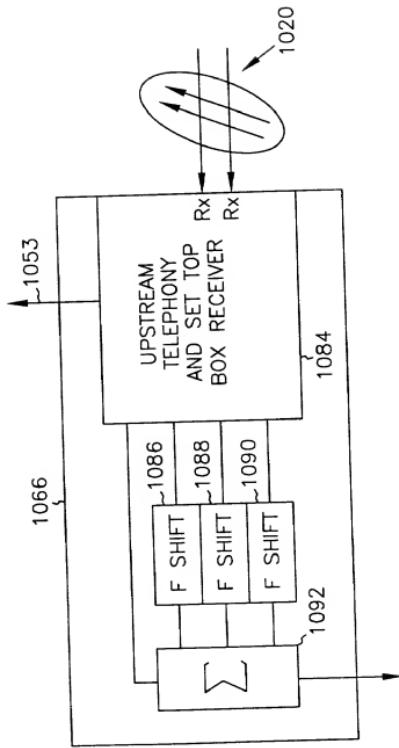


FIG. 122

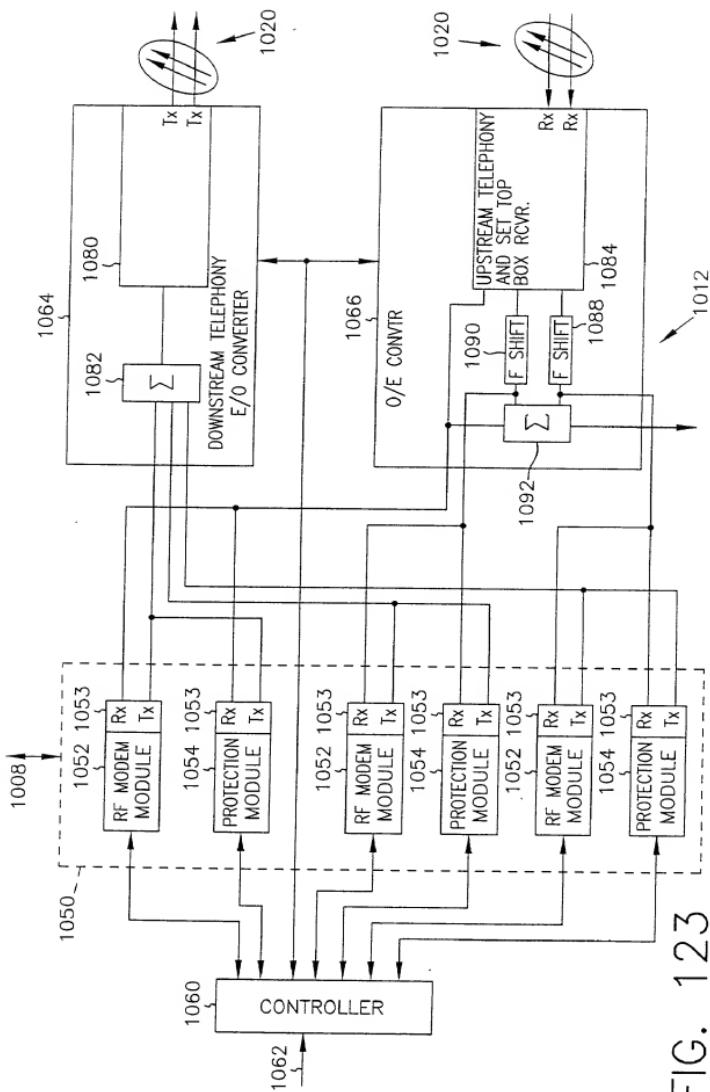


FIG. 123